

4850

Access DB# 68163

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Annula Nalle Examiner #: 10002 Date: 6/3/2002
 Art Unit: 1752 Phone Number 305-246-1 Serial Number: 10156458
 Mail Box and Bldg/Room Location: CP3-9836 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc. if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search for a compound representing formula TS-1 or TS-11 (attached) in a App. reference

Thank you.

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>R. Fuller</u>	NA Sequence (#) _____	STN <u>✓</u>
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) <u>2</u>	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr.Link _____
Date Completed: <u>8/20/02</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>40</u>	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>50</u>	Other _____	Other (specify) _____

PTO-1590 (8-01)

2 full structure searches

EIC1700

Search Results

Feedback Form (Optional)



Scientific & Technical Information Center

The search results generated for your recent request are attached. If you have any questions or comments (compliments or complaints) about the scope or the results of the search, please contact *the EIC searcher* who conducted the search *or contact*:

Kathleen Fuller, Team Leader, 308-4290, CP3/4 3D62

Voluntary Results Feedback Form

➤ *I am an examiner in Workgroup:* *Example:*

➤ *Relevant prior art found, search results used as follows:*

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ *Relevant prior art not found:*

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Search results were not useful in determining patentability or understanding the invention.

Other Comments:

Drop off completed forms in CP3/4 - 3D62 .

=> file reg

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DICTIONARY FILE UPDATES: 18 JUN 2002 HIGHEST RN 431976-32-8

TSCA INFORMATION NOW CURRENT THROUGH January 7, 2002

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> file hcaplus

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FILE COVERS 1907 - 20 Jun 2002 VOL 136 ISS 25
FILE LAST UPDATED: 18 Jun 2002 (20020618/ED)

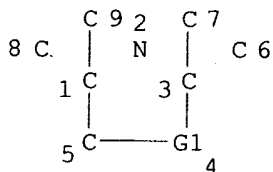
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CAS roles have been modified effective December 16, 2001. Please
check your SDI profiles to see if they need to be revised. For
information on CAS roles, enter HELP ROLES at an arrow prompt or use
the CAS Roles thesaurus (/RL field) in this file.

=> d que

L5

STR



TS-II

structure

24,214 compounds found

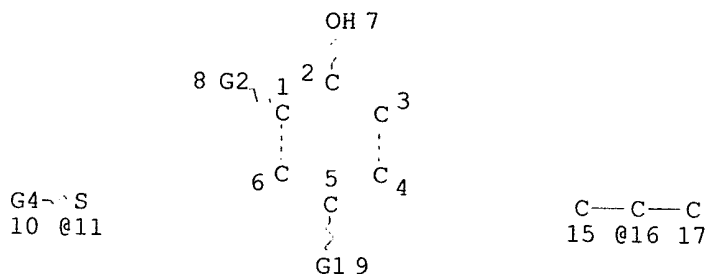
REP G1=(1-3) C

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RSPEC I
 NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE
 L7 24214 SEA FILE=REGISTRY SSS FUL L5
 L15 STR



TS I structure

25,206 structures

CH2-S—Ak
 @12 13 14

VAR G1=AK/11
 VAR G2=16/12/T-BU
 VAR G4=AK/CB
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 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RSPEC I
 NUMBER OF NODES IS 17

STEREO ATTRIBUTES: NONE
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 L18 15275 SEA FILE=HCAPLUS ABB=ON L7
 L19 35053 SEA FILE=HCAPLUS ABB=ON L17
 L20 3032 SEA FILE=HCAPLUS ABB=ON (L18 OR L19) AND MOLD?
 L21 77 SEA FILE=HCAPLUS ABB=ON L20 AND PHOTOG?/SC, SX, AB, BI
 L22 15 SEA FILE=HCAPLUS ABB=ON L21 AND PACK?
 L23 2 SEA FILE=HCAPLUS ABB=ON L21 AND (SILVER OR AG) (W) (CHLORIDE OR
 HALIDE OR FLUORIDE OR IODIDE OR BROMIDE)
 L24 0 SEA FILE=HCAPLUS ABB=ON L21 AND (AGX OR AGCL OR AGI OR AGBR
 OR AGF)
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 L26 24 SEA FILE=HCAPLUS ABB=ON L25 AND PHOTOG?/SC, SX, AB, BI
 L27 0 SEA FILE=HCAPLUS ABB=ON L25 AND (AGX OR AGCL OR AGI OR AGBR
 OR AGF)
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 HALIDE OR FLUORIDE OR IODIDE OR BROMIDE)
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 L30 36 SEA FILE=HCAPLUS ABB=ON L22 OR L23 OR L24 OR L26 OR L27 OR

L28 OR L29
 L32 7160 SEA FILE=HCAPLUS ABB=ON (L18 OR L19) (L)MOA/RL
 L33 33 SEA FILE=HCAPLUS ABB=ON L21 AND L32
 L34 48 SEA FILE=HCAPLUS ABB=ON L30 OR L33
 L35 43 SEA FILE=HCAPLUS ABB=ON L34 AND (FILM# OR PLASTIC? OR
 POLYMER? OR RESIN#)/SC,SX,AB,BI
 L36 17 SEA FILE=HCAPLUS ABB=ON L35 AND (PHOTOG? OR LIGHT?(3A)?SENSITI
 V?)
 L38 22 SEA FILE=HCAPLUS ABB=ON L22 OR L23 OR L28 OR L29 OR L36
 L39 11 SEA FILE=HCAPLUS ABB=ON L33 AND (PHOTOG? OR LIGHT?(3A)?SENSITI
 V?)
 L40 22 SEA FILE=HCAPLUS ABB=ON L38 OR L39

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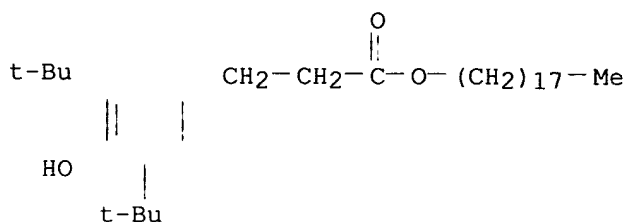
*22 CA references with
 utility*

L40 ANSWER 1 OF 22 HCAPLUS COPYRIGHT 2002 ACS
 AN 2002:368018 HCAPLUS
 DN 136:361770
 TI Recycling of waste thermoplastic **polymer moldings** for
photographic material and recycled products
 IN Sata, Toshio; Okamura, Daisuke; Kamata, Kazuo
 PA Fuji Photo Film Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 35 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM G03C003-00
 ICS G03C003-00; C08K003-04; C08K005-00; C08L101-00; G03B015-00
 CC 74-2 (Radiation Chemistry, Photochemistry, and **Photographic** and
 Other Reprographic Processes)
 Section cross-reference(s): 38, 60

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002139819	A2	20020517	JP 2000-299238	20000929
	EP 1193039	A1	20020403	EP 2001-307937	20010918
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 2002038921	A1	20020404	US 2001-963472	20010927
PRAI	JP 2000-252631	A	20000823		
	JP 2000-299238	A	20000929		
AB	In recycling of the polymer moldings used for photog. products (e.g. housing of disposable cameras, film cartridges, etc.) as a part of materials such as pellets for newly-produced moldings , at least carbon black and antioxidants and optionally rubber-contg. resins are added during the process. Carbon black and antioxidants prevent deterioration of photog. properties, e.g. fog, abnormality in sensitivity, contrast, coloration, etc., and rubber-contg. resin prevents decrease in impact resistance. The recycled products also include spools and cartridges for films , magazines for photog. materials, etc.				
ST	recycling waste thermoplastic photog molding carbon black antioxidant; disposable camera film cartridge plastic recycling carbon black antioxidant; rubber contg resin photog molding waste thermoplastic recycling				
IT	Cameras (disposable; recycling of waste thermoplastic moldings for				

- photog. material by adding carbon black, antioxidants, and optionally rubber-contg. resin)
- IT Antioxidants
Photographic films
Recycling of plastics and rubbers
(recycling of waste thermoplastic moldings for photog
. material by adding carbon black, antioxidants, and optionally
rubber-contg. resin)
- IT Butadiene rubber, processes
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical
process); PYP (Physical process); TEM (Technical or engineered material
use); PROC (Process); USES (Uses)
(recycling of waste thermoplastic moldings for photog
. material by adding carbon black, antioxidants, and optionally
rubber-contg. resin)
- IT Carbon black, uses
Rubber, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses)
(recycling of waste thermoplastic moldings for photog
. material by adding carbon black, antioxidants, and optionally
rubber-contg. resin)
- IT 9003-17-2
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical
process); PYP (Physical process); TEM (Technical or engineered material
use); PROC (Process); USES (Uses)
(butadiene rubber, recycling of waste thermoplastic moldings
for photog. material by adding carbon black, antioxidants,
and optionally rubber-contg. resin)
- IT 2082-79-3, Irganox 1076
RL: MOA (Modifier or additive use); TEM (Technical or engineered
material use); USES (Uses)
(recycling of waste thermoplastic moldings for photog
. material by adding carbon black, antioxidants, and optionally
rubber-contg. resin)
- IT 9003-53-6, Polystyrene
RL: PEP (Physical, engineering or chemical process); PYP (Physical
process); TEM (Technical or engineered material use); PROC (Process); USES
(Uses)
(recycling of waste thermoplastic moldings for photog
. material by adding carbon black, antioxidants, and optionally
rubber-contg. resin)
- IT 2082-79-3, Irganox 1076
RL: MOA (Modifier or additive use); TEM (Technical or engineered
material use); USES (Uses)
(recycling of waste thermoplastic moldings for photog
. material by adding carbon black, antioxidants, and optionally
rubber-contg. resin)
- RN 2082-79-3 HCAPLUS
- CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, octadecyl
ester (9CI) (CA INDEX NAME)



L40 ANSWER 2 OF 22 HCAPLUS COPYRIGHT 2002 ACS

AN 2002:252981 HCAPLUS

DN 136:280363

TI Method of recycling **plastic** parts and recycled **moldings**
for photosensitive material

IN Okamura, Daisuke; Kamata, Kazuo; Sata, Toshio

PA Fuji Photo Film Co., Ltd., Japan

SO Eur. Pat. Appl., 40 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM B29B017-00

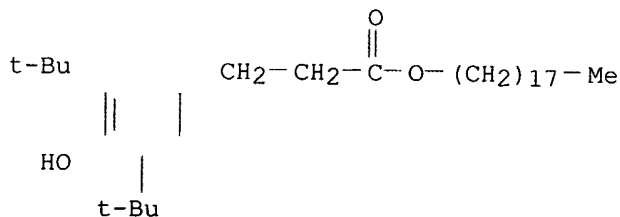
CC 38-2 (**Plastics** Fabrication and Uses)

Section cross-reference(s): 37

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1193039	A1	20020403	EP 2001-307937	20010918
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002139819	A2	20020517	JP 2000-299238	20000929
PRAI	JP 2000-299238	A	20000929		
	JP 2000-252631	A	20000823		
AB	A front cover, a rear cover and a base portion are crushed, and further pelletized into a recycled plastic pellet. The recycled plastic pellet is used as a part of a molding material to produce mold plastic parts for a photosensitive material. When the molding material is melted, a thermoplastic resin is deteriorated by heat or modified. When the thermoplastic resin is deteriorated in the above manner, the photosensitive material reacts with the thermoplastic resin to form decompd. products having bad influence on photog. characteristics. In order to prevent the deterioration by heat, oxidn. inhibiting materials are added, and to absorb the decompd. products, C blacks are added to the thermoplastic molding material.				
ST	recycling impact polystyrene molding camera body				
IT	Impact-resistant materials (butadiene rubber-polystyrene blend; recycled impact polystyrene for molding and use with photosensitive material)				
IT	Antioxidants (for recycled impact polystyrene for molding and use with photosensitive material)				
IT	Carbon black, uses RL: MOA (Modifier or additive use); USES (Uses) (for recycled impact polystyrene for molding and use with photosensitive material)				
IT	Cameras (molded parts; recycled impact polystyrene for				

- molding** and use in)
- IT Butadiene rubber, uses
 RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PYP (Physical process); PROC (Process); USES (Uses)
 (polystyrene blend; recycled impact polystyrene for **molding** and use with photosensitive material)
- IT **Molded plastics**, uses
 RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
 (recycled; recycled impact polystyrene for **molding** and use with photosensitive material)
- IT Recycling of **plastics** and rubbers
 (recycling impact polystyrene parts for photosensitive material)
- IT 9003-53-6, Polystyrene
 RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PYP (Physical process); PROC (Process); USES (Uses)
 (butadiene rubber blend; recycled impact polystyrene for **molding** and use with photosensitive material)
- IT 9003-17-2
 RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PYP (Physical process); PROC (Process); USES (Uses)
 (butadiene rubber, polystyrene blend; recycled impact polystyrene for **molding** and use with photosensitive material)
- IT 2082-79-3, Irganox 1076
 RL: MOA (**Modifier or additive use**); USES (Uses)
 (recycled impact polystyrene for **molding** and use with photosensitive material)
- RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
- RE
- (1) Akao, M; US 4780357 A 1988
 - (2) Akao, M; US 5851743 A 1998 HCAPLUS
 - (3) de Vrieze, C; US 3988285 A 1976 HCAPLUS
 - (4) Fuji Photo Film Co Ltd; EP 1107054 A 2001 HCAPLUS
 - (5) Nakadate, T; US 4699744 A 1987
 - (6) Sakuma, N; US 4810733 A 1989 HCAPLUS
 - (7) Sekisui Plastics; EP 0719626 A 1996 HCAPLUS
 - (8) Vandemoëre, A; US 5600391 A 1997
- IT 2082-79-3, Irganox 1076
 RL: MOA (**Modifier or additive use**); USES (Uses)
 (recycled impact polystyrene for **molding** and use with photosensitive material)
- RN 2082-79-3 HCAPLUS
- CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, octadecyl ester (9CI) (CA INDEX NAME)



L40 ANSWER 3 OF 22 HCAPLUS COPYRIGHT 2002 ACS
 AN 2001:377039 HCAPLUS
 DN 134:373994
 TI Polyacetal products, showing decreased **mold** deposits, for use
 with **photographic** materials
 IN Akao, Mutsuo
 PA Fuji Photo Film Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 38 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM G03C003-00
 ICS G03C003-00; C08K005-09; C08K005-13; C08K005-20; C08L023-00;
 C08L025-00; C08L059-00; C08L067-00; C08L075-04; C08L077-00;
 C08L083-04; C08L091-00; C08J005-00

CC 74-2 (Radiation Chemistry, Photochemistry, and **Photographic** and
 Other Reprographic Processes)
 Section cross-reference(s): 38, 60

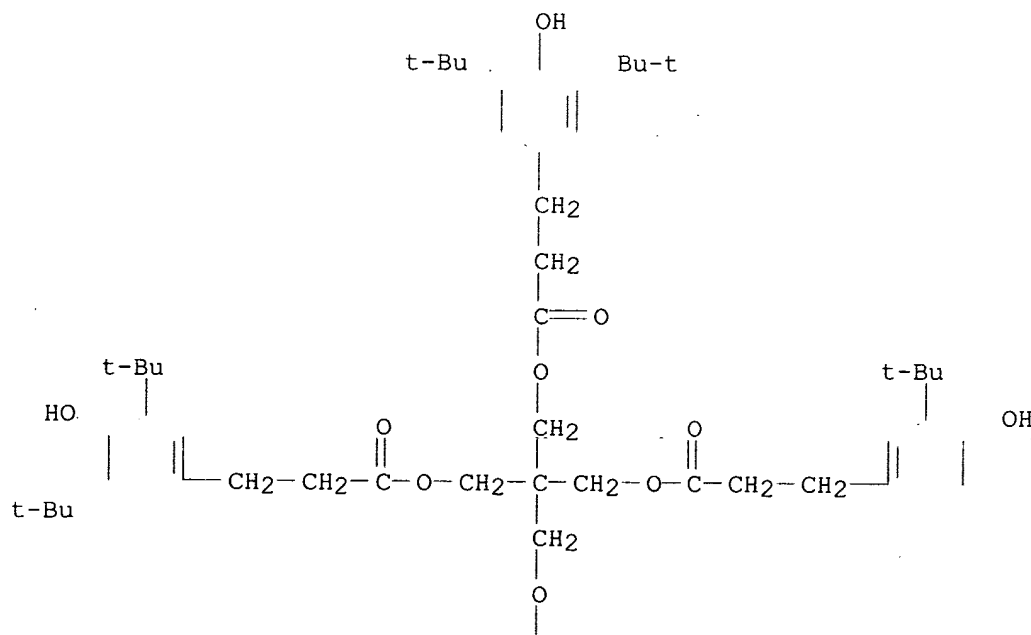
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001142176	A2	20010525	JP 1999-322488	19991112
AB	The products are molded compns. contg. polyacetals, thermoplastic resins which detoxifies HCHO generated from polyacetals, lubricant, antioxidant, and light-shielding substances. The compns. have excellent formability and give products having high strength and excellent sliding properties and are suitable for use as film magazines and instant film packages . The products are recyclable.				
ST	polyacetal film magazine formaldehyde scavenger blend; polymer blend polyacetal formaldehyde scavenger; mold deposit prevention polyacetal film magazine; photog film magazine recycling polyacetal				
IT	Amides, preparation RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses) (fatty; light-shielding polyacetal compns. contg. HCHO-scavenging polymers for photog. film cases)				
IT	Scavengers (for formaldehyde; light-shielding polyacetal compns. contg. HCHO-scavenging polymers for photog. film cases)				
IT	Polyamides, preparation RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses) (formaldehyde scavenger; light-shielding polyacetal compns. contg. HCHO-scavenging polymers for photog. film cases)				
IT	Phenols, preparation RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses) (hindered, antioxidants; light-shielding polyacetal compns. contg. HCHO-scavenging polymers for photog. film cases)				
IT	Carbon black, preparation RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses) (light-shielding component; light-shielding polyacetal compns. contg. HCHO-scavenging polymers for photog. film				

- cases)
IT Antioxidants
Recycling
(light-shielding polyacetal compns. contg. HCHO-scavenging
polymers for photog. film cases)
- IT Fatty acids, preparation
Polyesters, preparation
Polysiloxanes, preparation
Polyurethanes, preparation
Thermoplastic rubber
RL: DEV (Device component use); MOA (Modifier or additive use); PNU
(Preparation, unclassified); PREP (Preparation); USES (Uses)
(light-shielding polyacetal compns. contg. HCHO-scavenging
polymers for photog. film cases)
- IT Waxes
RL: DEV (Device component use); MOA (Modifier or additive use); PNU
(Preparation, unclassified); PREP (Preparation); USES (Uses)
(low mol. wt. polyolefins; light-shielding polyacetal compns. contg.
HCHO-scavenging **polymers for photog. film**
cases)
- IT **Photographic films**
(magazines and containers for; light-shielding polyacetal compns.
contg. HCHO-scavenging **polymers for photog.**
film cases)
- IT Fatty acids, preparation
RL: DEV (Device component use); MOA (Modifier or additive use); PNU
(Preparation, unclassified); PREP (Preparation); USES (Uses)
(metal salts; light-shielding polyacetal compns. contg. HCHO-scavenging
polymers for photog. film cases)
- IT Polyolefins
RL: DEV (Device component use); MOA (Modifier or additive use); PNU
(Preparation, unclassified); PREP (Preparation); USES (Uses)
(metallocene, formaldehyde scavenger; light-shielding polyacetal
compns. contg. HCHO-scavenging **polymers for photog.**
film cases)
- IT Containers
(**photog. film**; light-shielding polyacetal compns.
contg. HCHO-scavenging **polymers for photog.**
film cases)
- IT Urethane rubber, preparation
RL: DEV (Device component use); MOA (Modifier or additive use); PNU
(Preparation, unclassified); PREP (Preparation); USES (Uses)
(polyester-, formaldehyde scavenger; light-shielding polyacetal compns.
contg. HCHO-scavenging **polymers for photog.**
film cases)
- IT Acetals
RL: DEV (Device component use); USES (Uses)
(**polymers**; light-shielding polyacetal compns. contg.
HCHO-scavenging **polymers for photog. film**
cases)
- IT **6683-19-8P, Irganox 1010**
RL: DEV (Device component use); **MOA (Modifier or additive use)**;
PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(antioxidant; light-shielding polyacetal compns. contg. HCHO-scavenging
polymers for photog. film cases)
- IT **25191-90-6P, Nylon 6-nylon 66-nylon 610 copolymer**
RL: DEV (Device component use); MOA (Modifier or additive use); PNU
(Preparation, unclassified); PREP (Preparation); USES (Uses)
(formaldehyde scavenger; light-shielding polyacetal compns. contg.
HCHO-scavenging **polymers for photog. film**

- cases)
- IT 9003-53-6P
 RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
 (light-shielding polyacetal compns. contg. HCHO-scavenging **polymers for photog. film cases**)
- IT 1592-23-0P, Calcium stearate
 RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
 (lubricant; light-shielding polyacetal compns. contg. HCHO-scavenging **polymers for photog. film cases**)
- IT 26221-73-8DP, Ethylene-octene-1 copolymer, graft with unsatd. carboxylic acids
 RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
 (metallocene, formaldehyde scavenger; light-shielding polyacetal compns. contg. HCHO-scavenging **polymers for photog. film cases**)
- IT 50-00-0, Formaldehyde, processes
 RL: REM (Removal or disposal); PROC (Process)
 (scavengers; light-shielding polyacetal compns. contg. HCHO-scavenging **polymers for photog. film cases**)
- IT 6683-19-8P, Irganox 1010
 RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
 (antioxidant; light-shielding polyacetal compns. contg. HCHO-scavenging **polymers for photog. film cases**)
- RN 6683-19-8 HCAPLUS
 CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy)methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

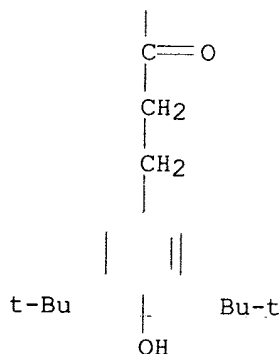
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PAGE 1-B

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PAGE 2-A

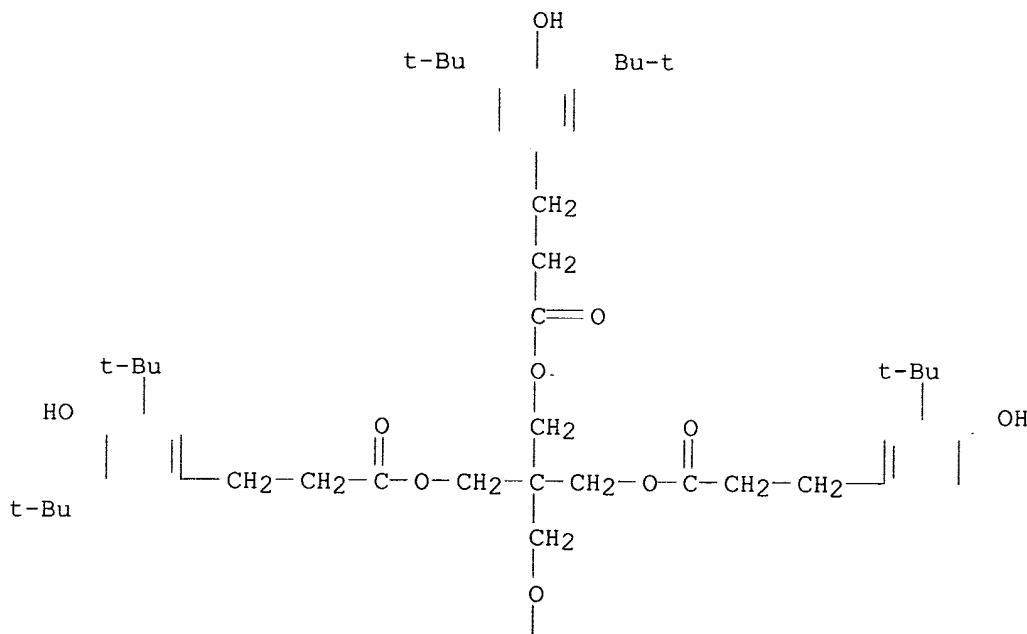


L40 ANSWER 4 OF 22 HCAPLUS COPYRIGHT 2002 ACS
 AN 2001:62609 HCAPLUS
 DN 134:123524
 TI **Packaging** material for photosensitive materials, its
 manufacture, and **packed** product using same
 IN Akao, Atsuo
 PA Fuji Photo Film Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 28 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM G03C003-00
 ICS G03C003-00; B29C047-14; B32B027-18; B32B027-20; B65D065-40;
 B65D081-30; C08J005-18; C08K005-098; C08K009-12; C08L101-00;
 B29K105-16; B29K509-00; B29L007-00; B29L009-00
 CC 74-2 (Radiation Chemistry, Photochemistry, and **Photographic** and
 Other Reprographic Processes)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001022033	A2	20010126	JP 1999-192607	19990707
AB	<p>The title packaging material comprises a thermoplastic resin film layer contg. 1-40 wt.% of zeolite with water content .ltoreq.15% and 0.01-10 wt.% of a lubricant. The thermoplastic resin may contain .gtoreq.1 moisture-controlling agent, deoxidn. agent, formaldehyde scavenger, and HCN scavenger. A blend of master batch pellets contg. .gtoreq.1 of additives in a high conc. and dilg. matrix polymer pellets is melt-mixed at a resin temp. of 150-350.degree. by using an extruder with a screw having an effective length/outer diam. ratio of 10-50 and then molded at a draw ratio (lip clearance/film thickness) of 3-100 by using a molding machine having a lip clearance of 0.7-5 mm to form the resin film layer. A packed product is also claimed, in which a photosensitive material is packed in a moisture-proof bag with moisture permeability .ltoreq.10 g/m2.24 h formed by heat-sealing the resin film each other. The packaging material can be produced inexpensively using polyolefin resins as main constituents and shows improved burning properties and applicability to recycling system.</p>				
ST	photog packaging material polyolefin zeolite				
IT	Polyamides, uses				
	RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)				
	(dimer acids, formaldehyde scavenger; photog. film packaging material comprising polyolefin contg. zeolite and lubricant)				
IT	Lubricants				
	Packaging materials				
	Photographic films				
	(photog. film packaging material comprising polyolefin contg. zeolite and lubricant)				
IT	Zeolites (synthetic), uses				
	RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)				
	(silver- and manganese-contg.; photog. film packaging material comprising polyolefin contg. zeolite and lubricant)				
IT	6683-19-8, Tetrakis[methylene-3-(3',5'-di-tert-butyl-4'-hydroxyphenyl)propionate]methane				
	RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)				
	(deoxidn. agent;; photog. film packaging material comprising polyolefin contg. zeolite and lubricant)				
IT	7647-10-1, Palladium chloride				
	RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)				
	(hydrogen cyanide scavenger; photog. film packaging material comprising polyolefin contg. zeolite and lubricant)				
IT	1592-23-0, Calcium stearate				
	RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)				
	(lubricant; photog. film packaging material comprising polyolefin contg. zeolite and lubricant)				
IT	9002-88-4, Polyethylene 25213-02-9, Ethylene-1-hexene copolymer				
	RL: DEV (Device component use); USES (Uses)				
	(photog. film packaging material				

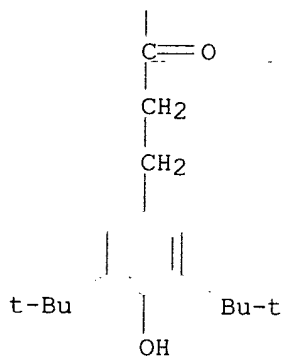
PAGE 1-A



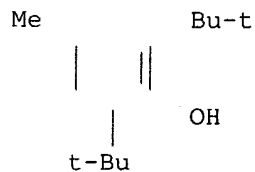
PAGE 1-B

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PAGE 2-A



IT 128-37-0, 2,6-Di-tert-butyl-4-methylphenol, uses
 RL: DEV (Device component use); MOA (Modifier or additive use);
 USES (Uses)
 (photog. film packaging material
 comprising polyolefin contg. zeolite and lubricant)
 RN 128-37-0 HCAPLUS
 CN Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (9CI) (CA INDEX NAME)



L40 ANSWER 5 OF 22 HCAPLUS COPYRIGHT 2002 ACS

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

AN 2000:747101 HCAPLUS
 DN 133:315539
 TI **Packaging** material for photosensitive materials
 IN Akao, Mutsuo; Sugimoto, Hideyuki
 PA Fuji Photo Film Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 26 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM G03C003-00
 ICS G03C003-00; C08K003-04; C08L009-00; C08L101-00
 CC 74-2 (Radiation Chemistry, Photochemistry, and **Photographic** and
 Other Reprographic Processes)
 Section cross-reference(s): 39

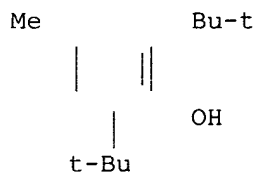
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000298331	A2	20001024	JP 1999-104672	19990413
AB	The title packaging material comprises a thermoplastic resin 100, a 1,2-polybutadiene- type thermoplastic elastomer 0.05-120, an age resistor 0.001-10, and a lubricant 0.01-50 parts. The material has no adverse effects on photog. properties of the photosensitive materials and shows improved phys. strength under low temp. conditions, injection- molding properties, and applicability to recycling.				
ST	photog film packaging material thermoplastic resin polybutadiene elastomer; lubricant polybutadiene rubber				
IT	photog material packaging film				
IT	Packaging materials (films; packaging material for photosensitive materials, comprising thermoplastic resins , polybutadiene elastomers, antioxidants, and lubricants)				
IT	Polysiloxanes, uses RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses) (lubricants; packaging material for photosensitive materials, comprising thermoplastic resins , polybutadiene elastomers, antioxidants, and lubricants)				
IT	Butadiene rubber, uses RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (of 1,2-configuration; packaging material for photosensitive materials, comprising thermoplastic resins , polybutadiene elastomers, antioxidants, and lubricants)				
IT	Antioxidants Lubricants (packaging material for photosensitive materials, comprising thermoplastic resins , polybutadiene elastomers, antioxidants, and lubricants)				
IT	Carbon black, uses RL: MOA (Modifier or additive use); USES (Uses) (packaging material for photosensitive materials, comprising thermoplastic resins , polybutadiene elastomers, antioxidants, and lubricants)				
IT	Plastic films (thermo-; packaging material for photosensitive materials, comprising thermoplastic resins , polybutadiene elastomers, antioxidants, and lubricants)				
IT	Plastics , uses RL: TEM (Technical or engineered material use); USES (Uses)				


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IT 9003-17-2
RL: POF (Polymer in formulation); TEM (Technical or engineered material
use); USES (Uses)
    (butadiene rubber, of 1,2-configuration; packaging material
    for photosensitive materials, comprising thermoplastic resins
    , polybutadiene elastomers, antioxidants, and lubricants)
IT 9002-88-4, Polyethylene
RL: POF (Polymer in formulation); TEM (Technical or engineered material
use); USES (Uses)
    (high-d. and low-d.; packaging material for photosensitive
    materials, comprising thermoplastic resins, polybutadiene
    elastomers, antioxidants, and lubricants)
IT 9016-00-6, Dimethylsilanediol homopolymer, sru 31900-57-9,
Dimethylsilanediol homopolymer
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses)
    (lubricant; packaging material for photosensitive materials,
    comprising thermoplastic resins, polybutadiene elastomers,
    antioxidants, and lubricants)
IT 301-02-0, Oleamide 1592-23-0, Calcium stearate
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses)
    (packaging material for photosensitive materials, comprising
    thermoplastic resins, polybutadiene elastomers, antioxidants,
    and lubricants)
IT 25213-02-9, Ethylene-1-hexene copolymer
RL: POF (Polymer in formulation); TEM (Technical or engineered material
use); USES (Uses)
    (packaging material for photosensitive materials, comprising
    thermoplastic resins, polybutadiene elastomers, antioxidants,
    and lubricants)
IT 128-37-0, 2,6-Di-tert-butyl-4-methylphenol, uses 6683-19-8
, Irganox 1010 31570-04-4, Tris(2,4-di-tert-butyl-phenyl) phosphite
RL: TEM (Technical or engineered material use); USES (Uses)
    (packaging material for photosensitive materials, comprising
    thermoplastic resins, polybutadiene elastomers, antioxidants,
    and lubricants)
IT 128-37-0, 2,6-Di-tert-butyl-4-methylphenol, uses 6683-19-8
, Irganox 1010
RL: TEM (Technical or engineered material use); USES (Uses)
    (packaging material for photosensitive materials, comprising
    thermoplastic resins, polybutadiene elastomers, antioxidants,
    and lubricants)
RN 128-37-0 HCAPLUS
CN Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (9CI) (CA INDEX NAME)

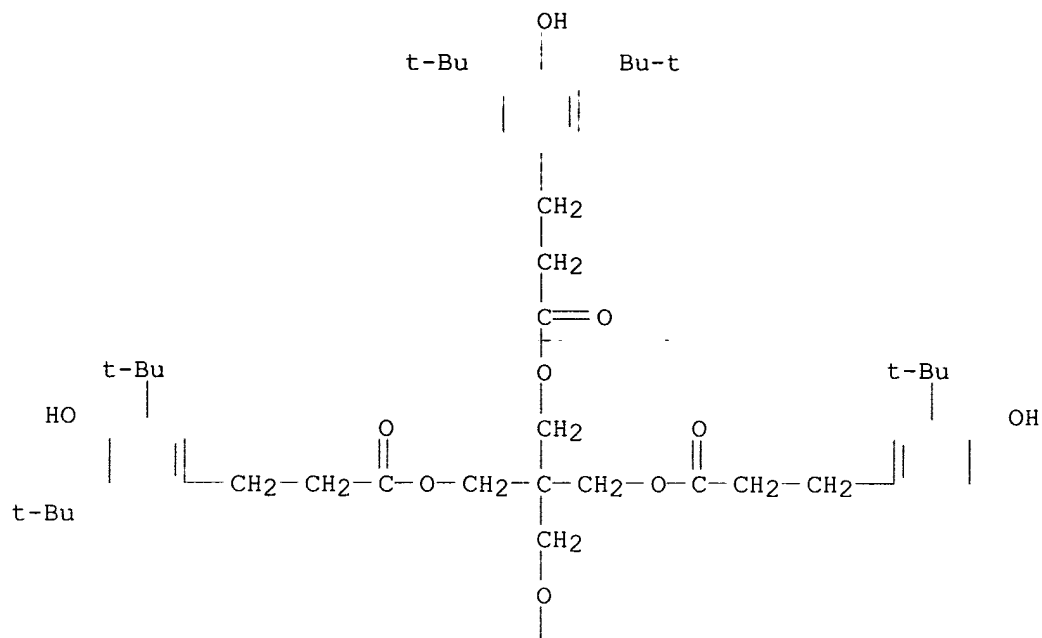
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RN 6683-19-8 HCAPLUS
CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,

2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy)methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

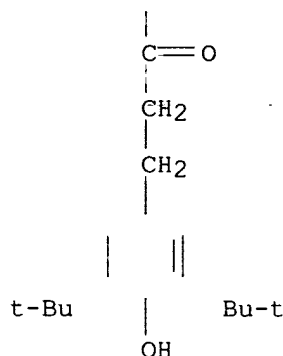
PAGE 1-A



PAGE 1-B

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PAGE 2-A



L40 ANSWER 6 OF 22 HCAPLUS COPYRIGHT 2002 ACS

AN 2000:143336 HCAPLUS

DN 132:187589

TI **Molded** product having improved formability and pigment dispersibility for **photographic** material and **photographic** material **packaged** with it

IN Akao, Mutsuo

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 34 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM G03C003-00

ICS G03C003-00

CC 74-2 (Radiation Chemistry, Photochemistry, and **Photographic** and Other Reprographic Processes)

Section cross-reference(s): 38

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000066336	A2	20000303	JP 1998-234082	19980820
AB	<p>The molded product is formed with a resin compn. comprising (a) 100 wt. parts of a thermoplastic resin, excluding poly(vinyl chloride), poly(vinylidene chloride), and chlorinated polyolefin resin, (b) 0.001-20 wt. parts (as total wt.) of .gtoreq.1 of a lubricant, a surfactant, and an antioxidant, and (c) 0.1-150 wt. parts of .gtoreq.1 plasticizer(s). Photog . materials packed with the material and a moistureproof packaging material showing moisture permeability .ltoreq.10 g/m²-24 h, measured under JIS Z 0208 condition B, are also claimed. The product also has improved anti-bleeding property and high low-temp. strength.</p>				
ST	<p>thermoplastic resin photog film patrone; magazine photog film thermoplastic resin; moistureproof packaging photog film</p>				
IT	<p>Photographic films (color; moistureproof packaging and molded thermoplastic patrone for photog. films)</p>				
IT	<p>Plasticizers (moistureproof packaging and molded thermoplastic patrone for photog. films)</p>				
IT	<p>Water-resistant materials</p>				

Water-resistant materials
(**packaging**; moistureproof **packaging** and
molded thermoplastic patrone for **photog.**
films)

IT Containers
(patrone; moistureproof **packaging** and molded
thermoplastic patrone for **photog. films**)

IT Linear low density polyethylenes
RL: DEV (Device component use); USES (Uses)
(patrone; moistureproof **packaging** and molded
thermoplastic patrone for **photog. films**)

IT Antioxidants
Lubricants
Surfactants
(thermoplastic patrone contg.; moistureproof **packaging** and
molded thermoplastic patrone for **photog.**
films)

IT **Plastics**, uses
RL: DEV (Device component use); USES (Uses)
(thermoplastics, patrone; moistureproof **packaging** and
molded thermoplastic patrone for **photog.**
films)

IT **Packaging materials**
Packaging materials
(water-resistant; moistureproof **packaging** and molded
thermoplastic patrone for **photog. films**)

IT 74-85-1D, Ethene, **polymers** with .alpha.-olefins,
polymers with .alpha.-olefins, **polymers** with
.alpha.-olefins, uses
RL: DEV (Device component use); USES (Uses)
(LLDPE, patrone; moistureproof **packaging** and molded
thermoplastic patrone for **photog. films**)

IT 9010-79-1
RL: DEV (Device component use); USES (Uses)
(patrone; moistureproof **packaging** and molded
thermoplastic patrone for **photog. films**)

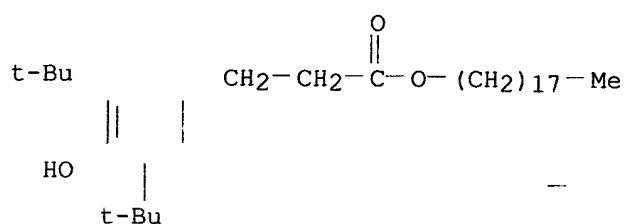
IT 25213-02-9, Ethylene-1-hexene copolymer
RL: DEV (Device component use); USES (Uses)
(patrone; **packaging** and molded thermoplastic
patrone for **photog. films**)

IT 112-84-5, Erucic amide 301-02-0, Oleic acid amide 1592-23-0, Calcium
stearate 2082-79-3, Irganox 1076 6683-19-8, Irganox
1010 31570-04-4, Irgafos 168
RL: DEV (Device component use); MOA (Modifier or additive use);
USES (Uses)
(thermoplastic patrone contg.; moistureproof **packaging** and
molded thermoplastic patrone for **photog.**
films)

IT 2082-79-3, Irganox 1076 6683-19-8, Irganox 1010
RL: DEV (Device component use); MOA (Modifier or additive use);
USES (Uses)
(thermoplastic patrone contg.; moistureproof **packaging** and
molded thermoplastic patrone for **photog.**
films)

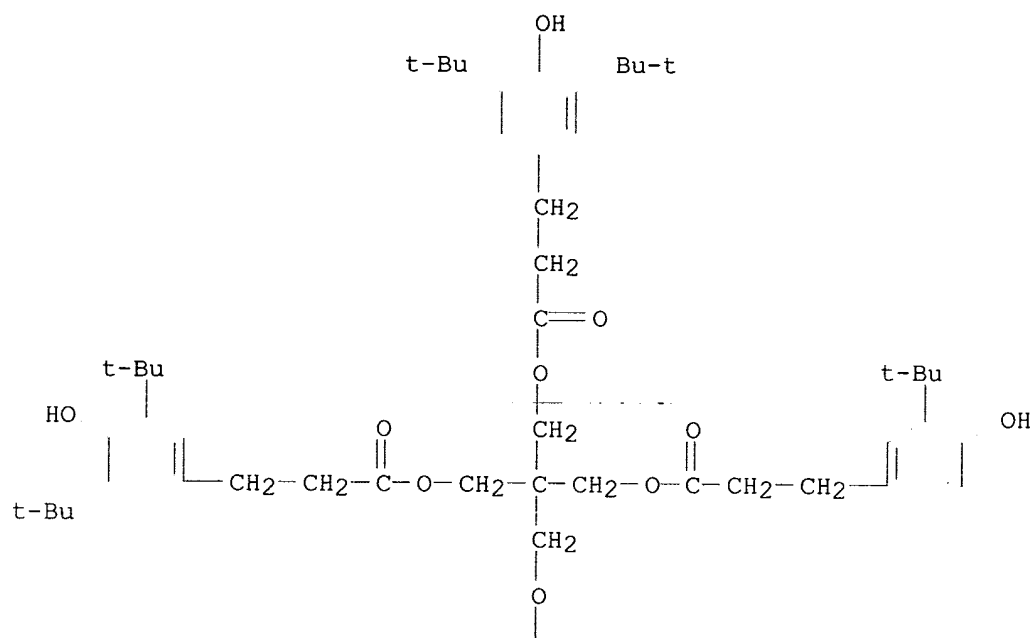
RN 2082-79-3 HCAPLUS

CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, octadecyl
ester (9CI) (CA INDEX NAME)



RN 6683-19-8 HCAPLUS
 CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,
 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

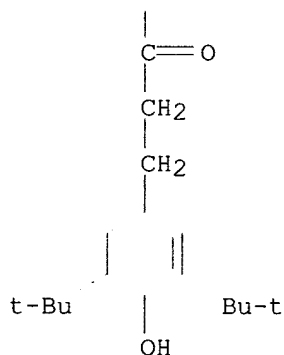
PAGE 1-A



PAGE 1-B

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PAGE 2-A



L40 ANSWER 7 OF 22 HCAPLUS COPYRIGHT 2002 ACS

AN 1999:277505 HCAPLUS

DN 130:344991

TI Preparation of solid processing agent for **silver halide**
photography and processing of **silver halide**
photographic material

IN Shimizu, Hiroshi; Sato, Atsushi

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 39 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM G03C005-26

ICS G03C005-29

CC 74-2 (Radiation Chemistry, Photochemistry, and **Photographic** and
Other Reprographic Processes)

FAN.CNT 1

PATENT NO.

KIND DATE

APPLICATION NO. DATE

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

PI JP 11119383 A2 19990430 JP 1997-278659 19971013

AB The title solid processing agent is prepd. by mixing materials having a bulk d. of .ltoreq.1.0 g/mL with other materials having a bulk d. of larger than that of the materials to make the bulk d. after mixing to .gtoreq.1.0 g/mL or **molding** the materials alone or after mixing with other materials to particle size 0.1-10 mm. A **Ag halide photog.** material contg. a hydrazine compd. is processed with the solid processing agent. The quantity of the solid agent remaining in the wrapping material after opening can be reduced.

ST solid **photog** processing agent bulk d; particle size solid **photog** processing agent

IT **Photographic** processing
(bulk d. or particle size-controlled solid **photog.** processing agent)

IT 6381-77-7, Sodium erythorbate
RL: TEM (Technical or engineered material use); USES (Uses)
(bulk d. or particle size-controlled solid **photog.** processing agent)

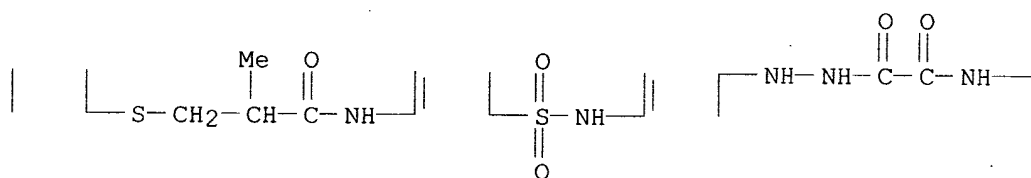
IT **188648-44-4**
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
(solid **photog.** processing agent for **photog.** material contg. hydrazine)

IT **188648-44-4**
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
(solid **photog.** processing agent for **photog.** material contg. hydrazine)

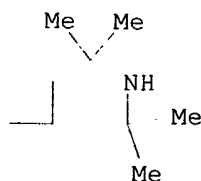
RN 188648-44-4 HCAPLUS

CN Acetic acid, oxo[(2,2,6,6-tetramethyl-4-piperidinyl)amino]-, 2-[4-[[[3-[[3-(cyclohexylthio)-2-methyl-1-oxopropyl]amino]phenyl]sulfonyl]amino]phenyl]hydrazide (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



AN 1998:631374 HCAPLUS
 DN 129:283376
 TI Injection-molded product for photographic film
 patronne
 IN Akao, Mutsuo
 PA Fuji Photo Film Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 42 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM G03C003-00
 ICS G03C003-00
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and
 Other Reprographic Processes)
 Section cross-reference(s): 38, 67

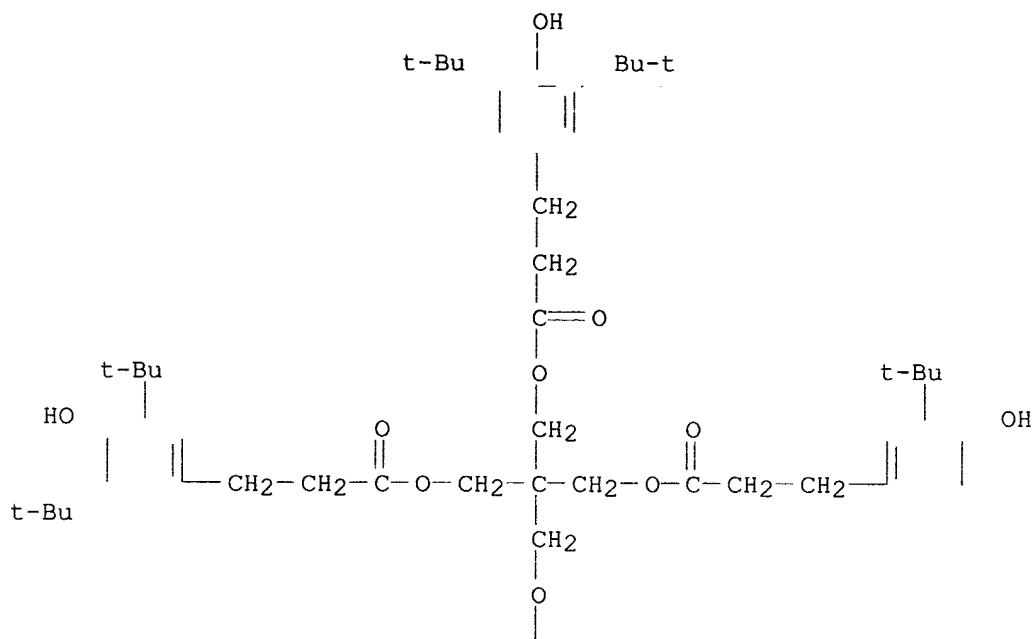
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10254094	A2	19980925	JP 1997-70843	19970307
	US 6013723	A	20000111	US 1997-982516	19971202
PRAI	JP 1996-323149		19961203		
	JP 1997-52852		19970307		
	JP 1997-70843		19970307		
AB	The injection-molded product comprises (1) a thermoplastic resin .gtoreq.30% which is polymd. using a single site catalyst contg. .gtoreq.1 of Zr, Ti, Hf, and/or Va metallocene complex and has the moil. wt. distribution 1.1-1.5, (2) a lubricant and/or a hydrotalcite 0.01-10%, and (3) an antioxidant 0.001-1.0%. The patronne provided stable phys. properties and did not gave adverse effects on a photog. film.				
ST	injection molded patronne thermoplastic resin;				
	photog film patronne				
IT	Crystal structure types (hydrotalcite; injection-molded product for photog. film patronne)				
IT	Antioxidants Photographic films Polymerization catalysts (injection-molded product for photog. film patronne)				
IT	1291-32-3, Bis(cyclopentadienyl)zirconium dichloride RL: CAT (Catalyst use); USES (Uses) (injection-molded product for photog. film patronne)				
IT	9002-88-4, Polyethylene 9003-07-0, Polypropylene 25087-34-7, Butene-1-ethylene copolymer RL: DEV (Device component use); USES (Uses) (injection-molded product for photog. film patronne)				
IT	301-02-0, Oleic acid amide 593-29-3, Potassium stearate 6683-19-8, Irganox 1010 RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses) (injection-molded product for photog. film patronne)				
IT	6683-19-8, Irganox 1010 RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses) (injection-molded product for photog. film patronne)				

RN 6683-19-8 HCAPLUS

CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,
 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy)methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

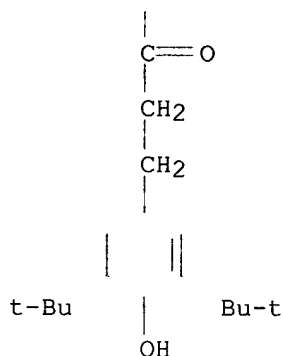
PAGE 1-A



PAGE 1-B

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PAGE 2-A



L40 ANSWER 9 OF 22 HCAPLUS COPYRIGHT 2002 ACS

AN 1998:397944 HCAPLUS

DN 129:128901

TI Injection molded products for photographic film

IN Akao, Mutsuo

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 49 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM G03C003-00

ICS G03C003-00

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 38

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10161274	A2	19980619	JP 1996-323149	19961203
	US 6013723	A	20000111	US 1997-982516	19971202
PRAI	JP 1996-323149		19961203		
	JP 1997-52852		19970307		
	JP 1997-70843		19970307		

AB The title products are made up of .gtoreq.30 % of thermoplastics with a mol. wt. distribution of 1.1-5.0, wherein the thermoplastics are prepd. using single site catalysts and contain at least lubricants and oxidn. inhibitors. The products show excellent mech. strength and antiblocking properties.

ST photog film thermoplastic injection molded product

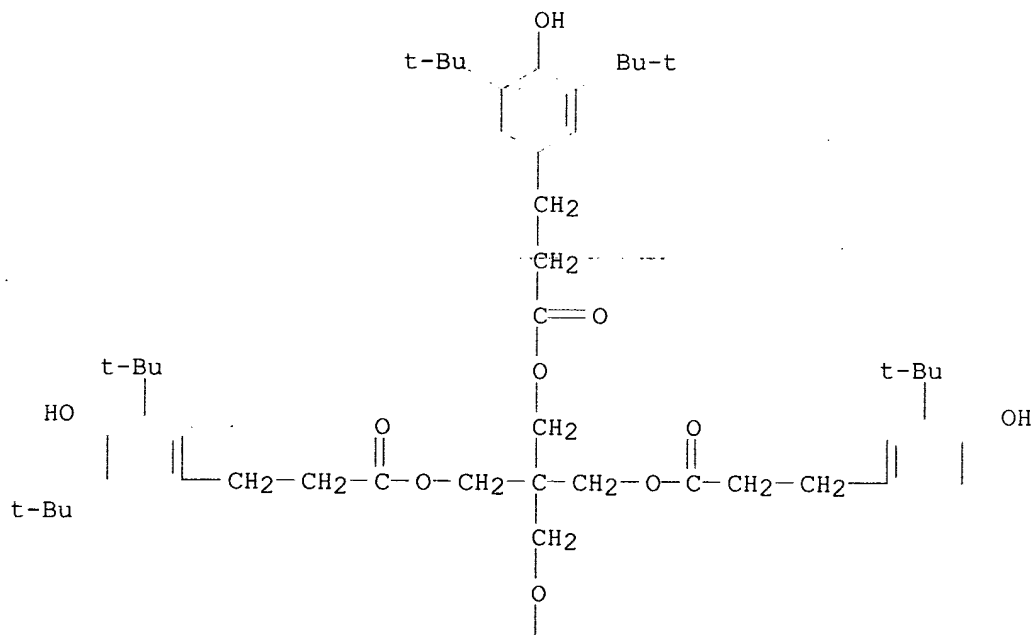
IT Photographic films
(injection molded products for photog. film)

IT Monoglycerides
Polysiloxanes, uses
RL: MOA (Modifier or additive use); USES (Uses)
(injection molded products for photog. film)

IT Molding of plastics and rubbers
(injection; injection molded products for photog. film)

- IT **Polymerization catalysts**
(single site; injection molded products for photog. film)
- IT 112-84-5, Erucic amide 115-86-6, Triphenylphosphate 301-02-0
557-05-1, Zinc stearate 593-29-3, Potassium stearate **6683-19-8**
, Irganox 1010 13463-67-7, Titania, uses 24938-91-8, Polyoxyethylene
tridecylether 81541-12-0, Gel All MD 110900-80-6, Butadiene-ethylene-
styrene block copolymer
RL: **MOA (Modifier or additive use); USES (Uses)**
(injection molded products for photog. film)
- IT 9002-88-4, Polyethylene 9003-07-0, Polypropylene 9003-53-6,
Polystyrene 9003-55-8, Butadiene-styrene copolymer 9010-79-1
25087-34-7, Butene-1-ethylene copolymer
RL: TEM (Technical or engineered material use); USES (Uses)
(injection molded products for photog. film)
- IT **6683-19-8**, Irganox 1010
RL: **MOA (Modifier or additive use); USES (Uses)**
(injection molded products for photog. film)
- RN 6683-19-8 HCAPLUS
- CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,
2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-
oxopropoxy)methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

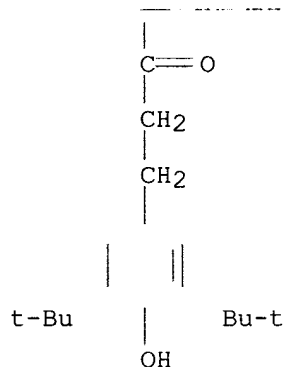
PAGE 1-A



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PAGE 2-A



L40 ANSWER 10 OF 22 HCAPLUS COPYRIGHT 2002 ACS

AN 1998:62296 HCAPLUS

DN 128:103139

TI Injection moldings for photographic materials and
manufacture thereof with good appearances, strength, dimensional
stability, light shielding, heat resistance, and slip and antistatic
properties

IN Akao, Mutsuo

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 18 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM G03C003-00

ICS G03C003-00

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 74

FAN.CNT 2

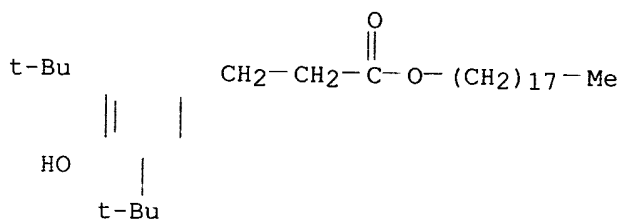
KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10010683	A2	19980116	JP 1996-162043	19960621
	US 5906813	A	19990525	US 1997-880504	19970623
PRAI	JP 1996-162043		19960621		
	JP 1996-177642		19960708		
AB	The title moldings such as advanced photo system patrone, etc. comprise .gtoreq.50% styrene polymers (melt index 3.0-4.0 g/10 min; Rockwell M hardness .gtoreq.38; Izod impact strength .gtoreq.2.0 kg-cm/cm, bending modulus .gtoreq.20,000 kg/cm2, Vicat softening temp. .gtoreq.78.degree.), 0.01-20% lubricants or surfactants, .gtoreq.3% thermoplastics heat-treated at .gtoreq.150.degree. two times or more, and 0.01-20% antioxidants, deodorants, and fragrances. A film winding core was molded from butadiene rubber-reinforced polystyrene, Mg stearate, polyethylene wax, ethylene-4-methyl-1-pentene copolymer, TiO2, pentaerythritol tetrakis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate], and octadecyl 3-(4-hydroxy-3,5-di-tert-butylphenyl)propionate.				
ST	photog film patrone injection molding				
IT	polystyrene				
IT	Antioxidants				
	Antistatic agents				
	Lubricants				
	Photographic apparatus				
	(injection moldings for photog. materials and manuf. thereof with good appearances, strength, dimensional stability, light shielding, heat resistance, and slip and antistatic properties)				
IT	Butadiene rubber, uses				
	Polyolefins				
	RL: DEV (Device component use); IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)				
	(injection moldings for photog. materials and manuf. thereof with good appearances, strength, dimensional stability, light shielding, heat resistance, and slip and antistatic properties)				
IT	9003-17-2P				
	RL: DEV (Device component use); IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)				
	(butadiene rubber, injection moldings for photog. materials and manuf. thereof with good appearances, strength, dimensional stability, light shielding, heat resistance, and slip and antistatic properties)				
IT	25213-96-1P, Ethylene-4-methylpentene-1 copolymer				
	RL: DEV (Device component use); IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)				
	(injection moldings for photog. materials and manuf. thereof with good appearances, strength, dimensional stability, light shielding, heat resistance, and slip and antistatic properties)				
IT	2082-79-3, Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate 6683-19-8, Pentaerythritol tetrakis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate] 9002-88-4				
	RL: MOA (Modifier or additive use) ; USES (Uses)				
	(injection moldings for photog. materials and manuf. thereof with good appearances, strength, dimensional stability, light shielding, heat resistance, and slip and antistatic properties)				
IT	2082-79-3, Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate 6683-19-8, Pentaerythritol tetrakis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]				

RL: MOA (Modifier or additive use); USES (Uses)
 (injection moldings for photog. materials and
 manuf. thereof with good appearances, strength, dimensional stability,
 light shielding, heat resistance, and slip and antistatic properties)

RN 2082-79-3 HCAPLUS

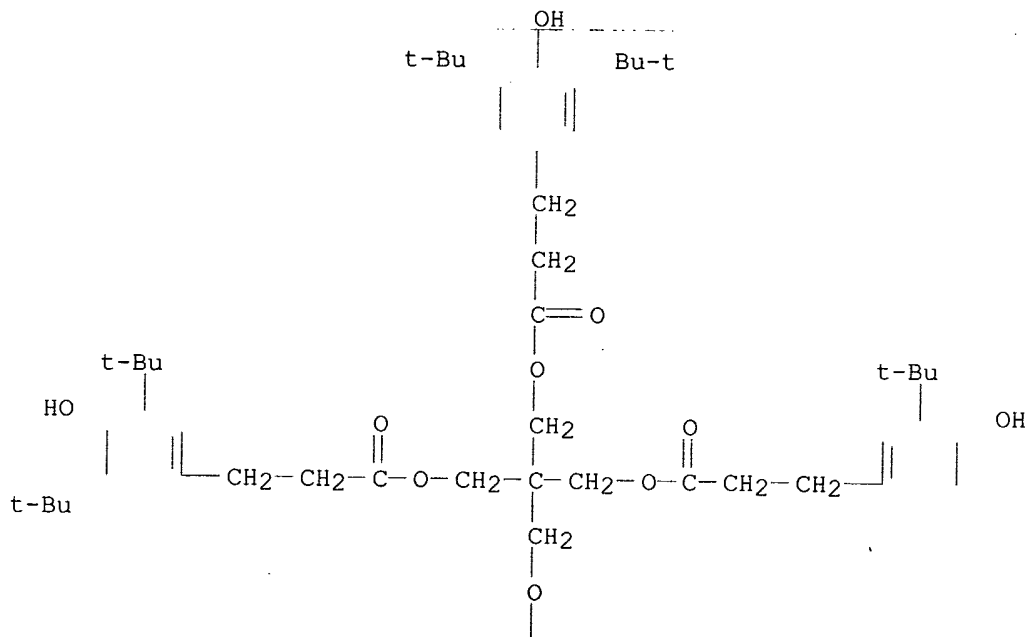
CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, octadecyl
 ester (9CI) (CA INDEX NAME)



RN 6683-19-8 HCAPLUS

CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,
 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-
 oxopropoxy)methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

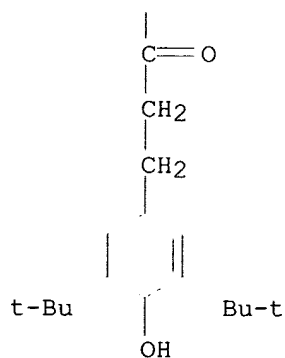
PAGE 1-A



PAGE 1-B

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PAGE 2-A



L40 ANSWER 11 OF 22 HCAPLUS COPYRIGHT 2002 ACS
AN 1996:488704 HCAPLUS
DN 125:116312
TI Injection **molded** articles for handling and **packaging**
photographic film
IN Akao, Mutsuo; Suzuki, Osamu
PA Fuji Photo Film Co., Ltd., Japan
SO Eur. Pat. Appl., 79 pp.
CODEN: EPXXDW
DT Patent
LA English
IC ICM C08L101-00
ICS G03C003-00
CC 37-6 (**Plastics** Manufacture and Processing)
Section cross-reference(s): **38, 74**
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

PI EP 717079 A2 19960619 EP 1995-116992 19951027
 EP 717079 A3 19980617

R: DE, GB, NL

JP 08118394 A2 19960514 JP 1994-264222 19941027

US 5827584 A 19981027 US 1995-549235 19951027

PRAI JP 1994-264222 19941027

AB An injection **molded** article for the title use is formed of a noncryst. **resin** compn. contg. 50 wt% or more of a noncryst. **resin** having a melt flow rate of from 1 to 60 g/10 min, a flexural modulus of elasticity of 20,000 kg/cm² or more and a thermal deformation temp. of 70 .degree.C or higher, from 0.1 to 45 wt% of one or more of a rubbery material, a thermoplastic elastomer and an ethylene copolymer **resin**, from 0.01 to 49.9 wt% of one or more of a light-shielding material and a fibrous filler and from 0.001 to 20 wt% of one or more of an antioxidant, an age resistor, an UV absorber, a fatty acid metal salt, a radical scavenger, a hydrate double salt compd. and an oxidn. inhibitory synergistic effect-providing agent. A **film** spool was manufd. by injection **molding** of a compn. contg. 90 parts butadiene-styrene block copolymer contg. 0.1% hindered phenol antioxidant and 0.3% Ca stearate (I) lubricant, 10 parts pellets contg. furnace black light-shielding agent 3.5, I 0.1, poly(dimethylsiloxane) 15, Et acrylate-ethylene copolymer 50, hydrotalcite 1.3, antioxidant 0.1, and polystyrene 30%.

ST injection **molding photog film**
packaging handling; hydrotalcite **photog film**
packaging material; calcium stearate **photog film**
packaging material; polystyrene blend **photog**
film packaging material; spool **photog**
film plastic; fatty salt **photog film**
packaging material; radical scavenger **photog**
film packaging material; UV absorber **photog**
film packaging material; antioxidant **photog**
film packaging material; styrene copolymer
photog film packaging handling; butadiene
copolymer **photog film packaging** handling;
acrylate copolymer **photog film packaging**
handling; ethylene copolymer **photog film**
packaging handling

IT Antioxidants

Antistatic agents

Containers

Lubricants

(injection **molded** articles for handling and **packaging**
photog. film)

IT Siloxanes and Silicones, uses

RL: DEV (Device component use); MOA (Modifier or additive use); USES
 (Uses)

(injection **molded** articles for handling and **packaging**
photog. film)

IT Polycarbonates, properties

RL: DEV (Device component use); POF (Polymer in formulation); PRP
 (Properties); USES (Uses)

(injection **molded** articles for handling and **packaging**
photog. film)

IT **Plastics, molded**

RL: DEV (Device component use); PRP (Properties); USES (Uses)

(injection **molded** articles for handling and **packaging**
photog. film)

IT Carbon black, uses

RL: DEV (Device component use); MOA (Modifier or additive use); USES

- (Uses)
(light-shielding agent; injection **molded** articles for handling and **packaging photog. film**)
- IT Zeolites, uses
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
(light-shielding agents; injection **molded** articles for handling and **packaging photog. film**)
- IT Paraffin oils
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
(lubricants; injection **molded** articles for handling and **packaging photog. film**)
- IT Carbon fibers, uses
Glass fibers, uses
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
(reinforcing agents; injection **molded** articles for handling and **packaging photog. film**)
- IT Rubber, synthetic
RL: DEV (Device component use); POF (Polymer in formulation); PRP (Properties); USES (Uses)
(EPDM, injection **molded** articles for handling and **packaging photog. film**)
- IT Light stabilizers
(UV, injection **molded** articles for handling and **packaging photog. film**)
- IT **Photography**
(app., **film** spools; injection **molded** articles for handling and **packaging photog. film**)
- IT Vinyl compounds, uses
RL: DEV (Device component use); POF (Polymer in formulation); USES (Uses)
(aryl, **polymers**, injection **molded** articles for handling and **packaging photog. film**)
- IT Rubber, synthetic
RL: DEV (Device component use); POF (Polymer in formulation); USES (Uses)
(diene, injection **molded** articles for handling and **packaging photog. film**)
- IT Amides, uses
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
(fatty, lubricants; injection **molded** articles for handling and **packaging photog. film**)
- IT Fatty acids, uses
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
(metal salts, lubricants; injection **molded** articles for handling and **packaging photog. film**)
- IT Rubber, synthetic
RL: DEV (Device component use); POF (Polymer in formulation); USES (Uses)
(polyolefin, injection **molded** articles for handling and **packaging photog. film**)
- IT 2440-22-4, 2-(2-Hydroxy-5-methylphenyl)benzotriazole
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
(UV absorber; injection **molded** articles for handling and **packaging photog. film**)
- IT 61167-58-6, 2-tert-Butyl-6-(3-tert-butyl-5-methyl-2-hydroxybenzyl)-4-methylphenyl acrylate
RL: DEV (Device component use); MOA (Modifier or additive use);

USES (Uses)

(antioxidant; injection **molded** articles for handling and **packaging photog. film**)

IT 96639-03-1, Electrostripper H

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(injection **molded** articles for handling and **packaging photog. film**)

IT 9003-07-0, Polypropylene 9003-53-6, Polystyrene 9010-86-0, Ethyl acrylate-ethylene copolymer 9016-00-6, Dimethylsilanediol homopolymer, sru 31900-57-9, Dimethylsilanediol homopolymer 106107-54-4, Butadiene-styrene block copolymer 106974-54-3, Butadiene-styrene graft copolymer

RL: DEV (Device component use); POF (Polymer in formulation); PRP (Properties); USES (Uses)

(injection **molded** articles for handling and **packaging photog. film**)

IT 471-34-1, Calcium carbonate, uses 7727-43-7, Barium sulfate

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(light-shielding agent; injection **molded** articles for handling and **packaging photog. film**)

IT 12304-65-3, Hydrotalcite

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(light-shielding agents; injection **molded** articles for handling and **packaging photog. film**)

IT 1592-23-0, Calcium stearate

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(lubricant; injection **molded** articles for handling and **packaging photog. film**)

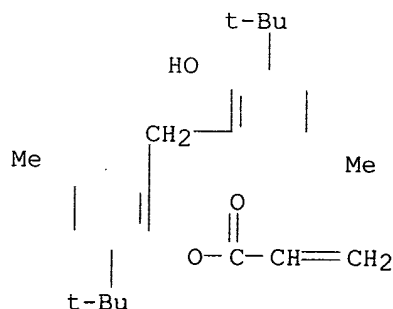
IT 61167-58-6, 2-tert-Butyl-6-(3-tert-butyl-5-methyl-2-hydroxybenzyl)-4-methylphenyl acrylate

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(antioxidant; injection **molded** articles for handling and **packaging photog. film**)

RN 61167-58-6 HCAPLUS

CN 2-Propenoic acid, 2-(1,1-dimethylethyl)-6-[[3-(1,1-dimethylethyl)-2-hydroxy-5-methylphenyl]methyl]-4-methylphenyl ester (9CI) (CA INDEX NAME)



L40 ANSWER 12 OF 22 HCAPLUS COPYRIGHT 2002 ACS
AN 1995:331530 HCAPLUS
DN 122:147154

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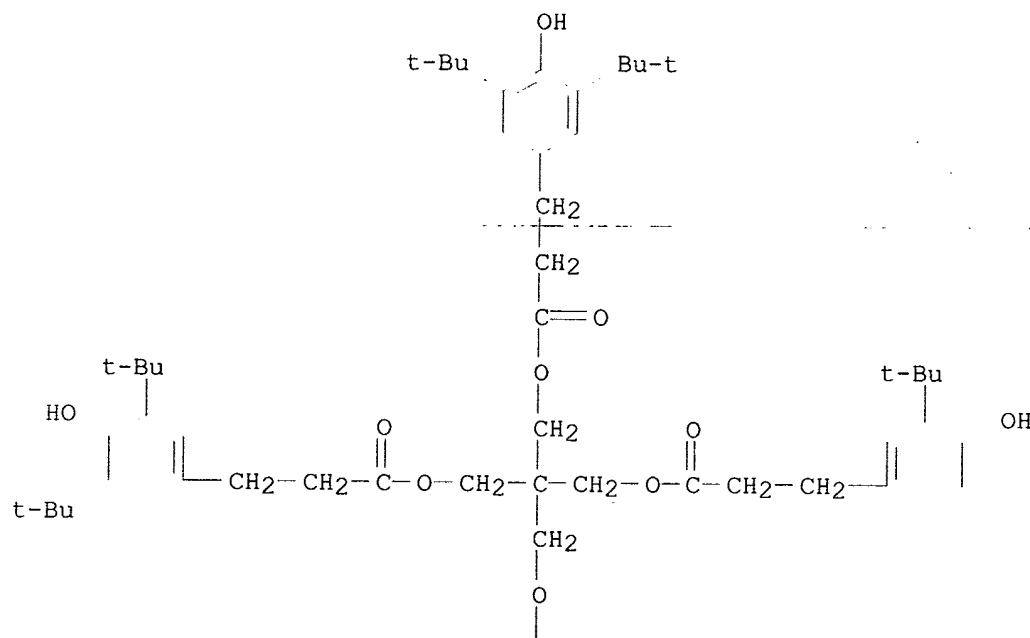
TI Polyolefin **molding** and **packaging** for
photographic material
 IN Akao, Mutsuo; Suzuki, Osamu
 PA Fuji Photo Film Co Ltd, Japan
 SO Jpn. Kokai Tokkyo Koho, 24 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM G03C003-00
 ICS G03C003-00
 CC 74-2 (Radiation Chemistry, Photochemistry, and **Photographic** and
 Other Reprographic Processes)
 Section cross-reference(s): 38

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06317881	A2	19941115	JP 1993-63555	19930323
AB	The molding comprises polyethylene, ethylene-.alpha.-olefin copolymer, polypropylene, and/or propylene-.alpha.-olefin copolymer (crystn. degree .gtoreq.60%, mol--wt--distribution 1.5-10, MFR 0.01-70 g/10 min) .gtoreq.50, a lubricant 0.01-25, and an antioxidant 0.001-1.0 wt.%. The molding may be inflation films , spools, patrones, photog. film units with a lense, etc. The molding comprises .gtoreq.50 wt.% polyolefin and 0.01-10 wt.% fatty acid metal salts, zeolite, and/or hydrotalcite. The packaging comprises an Ag halide photog. material with ISO sensitivity .gtoreq.100 sealed with a container with moisture permeability .ltoreq.10 g/24 h-m2.				
ST	polyolefin molding photog material packaging				
IT	Carbon black, uses Zeolites, uses RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses) (light-intercepting; polyolefin molding packaging of Ag halide photog. materials)				
IT	Cameras Photographic films (polyolefin molding packaging of Ag halide photog. materials)				
IT	Alkenes, uses RL: DEV (Device component use); POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (polymers, polyolefin molding packaging of Ag halide photog. materials)				
IT	6683-19-8 RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses) (antioxidant; polyolefin molding packaging of Ag halide photog. materials)				
IT	7631-86-9, Silica, uses 12304-65-3, Hydrotalcite 13463-67-7, Titania, uses RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses) (light-intercepting; polyolefin molding packaging of Ag halide photog. materials)				
IT	557-04-0, Magnesium stearate 557-05-1, Zinc stearate RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses) (lubricant; polyolefin molding packaging of Ag halide photog. materials)				

- IT 81541-12-0, 1,3-2,4-Di-p-methylbenzylidenesorbitol 87826-41-3,
1,3-2,4-Di(methylbenzylidene)sorbitol
RL: DEV (Device component use); TEM (Technical or engineered material
use); USES (Uses)
(nucleating agent; polyolefin molding packaging of
Ag halide photog. materials)
- IT 9002-88-4 9003-07-0, Polypropylene 9010-79-1, Ethylene-propylene
copolymer 25087-34-7, 1-Butene-ethylene copolymer
RL: DEV (Device component use); POF (Polymer in formulation); TEM
(Technical or engineered material use); USES (Uses)
(polyolefin molding packaging of Ag
halide photog. materials)
- IT 6683-19-8
RL: DEV (Device component use); TEM (Technical or engineered material
use); USES (Uses)
(antioxidant; polyolefin molding packaging of
Ag halide photog. materials)
- RN 6683-19-8 HCAPLUS
CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,
2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-
oxopropoxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

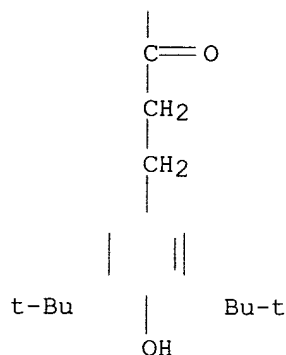
PAGE 1-A



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PAGE 2-A



L40 ANSWER 13 OF 22 HCAPLUS COPYRIGHT 2002 ACS
AN 1994:711824 HCAPLUS
DN 121:311824
TI Light shielding **molding** for **photographic** materials and
its manufacture
IN Akao, Mutsuo; Kawamura, Makoto
PA Fuji Photo Film Co Ltd, Japan
SO Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM G03C003-00
CC 74-2 (Radiation Chemistry, Photochemistry, and **Photographic** and
Other Reprographic Processes)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06186678	A2	19940708	JP 1992-337575	19921217

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

JP 3244236 B2 20020107

AB The shielding mold comprises surface-coated carbon black and/or Al powder having .gtoreq.2 heat history at 130.degree., and polyolefin resin having .gtoreq.2 heat history at .gtoreq.130.degree.. Colored master batch contg. 5-80 wt.% of carbon black and/or Al powder is prepd. by melt mixing the polyolefin resin and surface-coated carbon black and/or Al powder at .gtoreq.130.degree., and the master batch is melt-mixing with dilg. thermoplastic resin at .gtoreq.130.degree. to give a colored thermoplastic resin for the moldings. Carbon black and Al powder is dispersed well in the moldings.

ST light shielding molding photog film; carbon black aluminum light shielding molding

IT Photographic films
(light shielding moldings for photog. films
)

IT Carbon black, uses
RL: DEV (Device component use); MOA (Modifier or additive use); USES
(Uses)
(light shielding moldings for photog. films
)

IT 2082-79-3 6683-19-8, Irganox 1010
RL: DEV (Device component use); MOA (Modifier or additive use);
USES (Uses)
(antioxidant; light shielding moldings for photog.
films)

IT 7429-90-5, Aluminum, uses
RL: DEV (Device component use); MOA (Modifier or additive use); USES
(Uses)
(light shielding moldings for photog. films
)

IT 9002-88-4, Polyethylene 9010-77-9, Acrylic acid-ethylene copolymer
25087-34-7, 1-Butene-ethylene copolymer 25213-96-1, Ethylene-4-
methylpentene-1 copolymer 26221-73-8, Ethylene-1-octene copolymer
RL: DEV (Device component use); POE (Polymer in formulation); USES (Uses)
(light shielding moldings for photog. films
)

IT 112-84-5, Erucic amide 557-04-0, Magnesium stearate
RL: DEV (Device component use); MOA (Modifier or additive use); USES
(Uses)
(lubricant; light shielding moldings for photog.
films)

IT 2082-79-3 6683-19-8, Irganox 1010
RL: DEV (Device component use); MOA (Modifier or additive use);
USES (Uses)
(antioxidant; light shielding moldings for photog.
films)

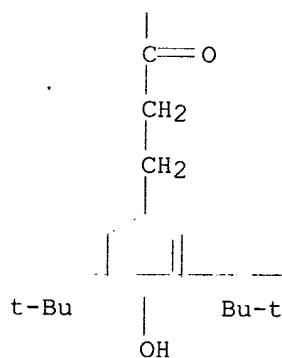
RN 2082-79-3 HCAPLUS

CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, octadecyl
ester (9CI) (CA INDEX NAME)

PAGE 1-B

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PAGE 2-A



L40 ANSWER 14 OF 22 HCAPLUS COPYRIGHT 2002 ACS
AN 1994:591189 HCAPLUS
DN 121:191189
TI **Moldings for package of photographic**
materials
IN Akao, Mutsuo; Kawamura, Makoto
PA Fuji Photo Film Co Ltd, Japan
SO Jpn. Kokai Tokkyo Koho, 18 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM G03C003-00
ICS C08K005-00; C08L101-00
CC 74-2 (Radiation Chemistry, Photochemistry, and **Photographic** and
Other Reprographic Processes)
FAN.CNT 1
PATENT NO. KIND DATE APPLICATION NO. DATE

PI JP 06130565 A2 19940513 JP 1992-281658 19921020
 JP 3095298 B2 20001003

AB The title **molding** contains .gtoreq.3 wt.% of a thermoplastic **resin** having .gtoreq.3 times of heat history at 140-350.degree. and an antioxidant. The **moldings** do not give adverse effects on the **photog.** properties. Thus, a mixt. of polyethylene **resin** granulated at 160.degree., carbon black and additives was melt-extruded at 170.degree., the resulting pellets were mixed with a compn. contg. ethylene-octene-1 copolymer and tetrakis[methylene-3-(3',5'-di-tert-butyl-4'-hydroxyphenyl)propionate]methane and extruded at 180.degree. into a light-shielding **film**.

ST **package photog film molding;**
 thermoplastic **resin** antioxidant **photog package**

IT **Photographic films**
 (moldings for **package** for, comprising thermoplastic **resin** and antioxidant)

IT Recycling of **plastics** and rubbers
 (of **photog. film package**)

IT Rubber, butadiene-styrene, uses
 Siloxanes and Silicones, uses
 RL: USES (Uses)
 (photog. **film package** using)

IT 5530-30-3 6683-19-8 26523-78-4,
 Tris(nonylphenyl)phosphite
 RL: USES (Uses)
 (antioxidant, thermoplastic **resin** contg., for **photog . film package**)

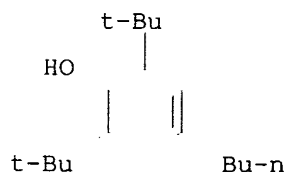
IT 9002-88-4, Polyethylene 9003-53-6, Polystyrene 9016-00-6, Dimethyl siloxane 25087-34-7, Butene-ethylene copolymer 26221-73-8, Ethylene-1-octene copolymer 31900-57-9, Dimethylsilanediol homopolymer
 RL: USES (Uses)
 (photog. **film package** using)

IT 9003-55-8
 RL: USES (Uses)
 (rubber, **photog. film package** using)

IT 5530-30-3 6683-19-8
 RL: USES (Uses)
 (antioxidant, thermoplastic **resin** contg., for **photog . film package**)

RN 5530-30-3 HCAPLUS

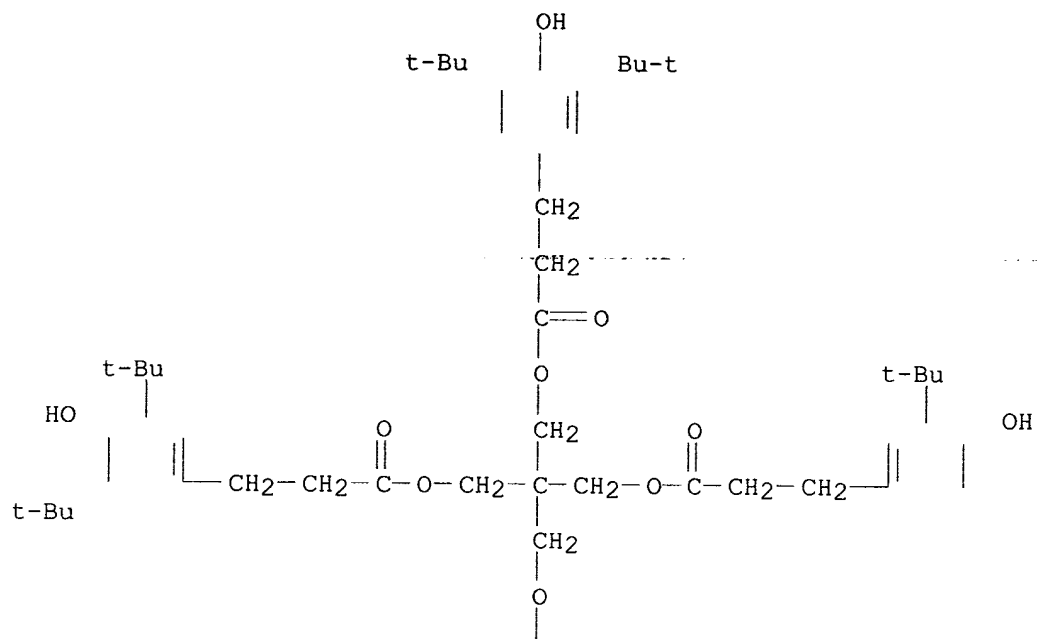
CN Phenol, 4-butyl-2,6-bis(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



RN 6683-19-8 HCAPLUS

CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

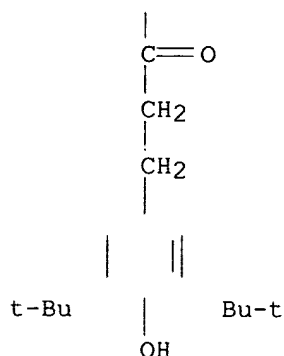
PAGE 1-A



PAGE 1-B

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PAGE 2-A



L40 ANSWER 15 OF 22 HCAPLUS COPYRIGHT 2002 ACS

AN 1994:446497 HCAPLUS

DN 121:46497

TI **Molded** article for **photographic** photosensitive material

IN Akao, Mutsuo; Osanai, Hiroyuki

PA Fuji Photo Film Co., Ltd., Japan

SO Eur. Pat. Appl., 49 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM G03C003-00

CC 74-2 (Radiation Chemistry, Photochemistry, and **Photographic** and Other Reprographic Processes)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 569950	A1	19931118	EP 1993-107680	19930511
	EP 569950	B1	19991208		
	R: DE, GB				
	JP 06161039	A2	19940607	JP 1992-117758	19920511
	JP 3055582	B2	20000626		
	JP 06067357	A2	19940311	JP 1993-147838	19930618
	US 6069196	A	20000530	US 1999-225472	19990106
PRAI	JP 1992-117758	A	19920511		
	JP 1992-161029	A	19920619		
	US 1993-59265	A3	19930511		

AB A **molded** article for a **photog.** photosensitive material formed of a **molding resin** compn. consisting essentially of 100 parts by wt. of a cryst. **resin** compn. comprising a cryst. **resin** and at least a lubricant or antistatic agent, 0.001 to 2 parts by wt. of an antioxidant, and 5 to 90 parts by wt. of an acrylic acid copolymer **resin** and a **molded** article for **photog.** photosensitive materials formed of a light-shielding thermoplastic **resin** compn. comprising a light-shielding material of which the surface has been treated with a surface-treating material and antioxidant are claimed. The **molded** article can inhibit bleeding out and thermal decompn. of antistatic agents, lubricants, and org. nucleating agents contained therein and can prevent various troubles induced therefrom.

ST **molded** article **resin** **photog** **film**IT Acrylic **polymers**, uses

RL: USES (Uses)

(molded package materials contg., for
photog. materials)

IT Photographic films

Photographic paper

(molded package materials for, cryst.
resins for)

IT Packaging materials

(molded resin, for photog. materials)

IT 112-84-5, Erucic acid amide 557-05-1, Zinc stearate 1843-05-6,
2-Hydroxy-4-octoxybenzophenone 2082-79-3, Octadecyl
3-(4-hydroxy-3,5-di-tert-butylphenyl)propionate 5793-94-2, Calcium
stearyl lactate 6683-19-8, Tetrakis[methylene-3-(3,5-di-tert-
butyl-4-hydroxyphenyl)propionate]methane 9002-88-4, Polyethylene
9003-07-0, Polypropylene 9010-77-9, Acrylic acid-ethylene copolymer
9010-79-1, Ethylene-propylene copolymer 13463-67-7, Titanium dioxide,
uses 25087-34-7, 1-Butene-ethylene copolymer 25213-96-1,
Ethylene-4-methyl-1-pentene copolymer 26523-78-4,
Trinonylphenylphosphite 31566-31-1, Glycerin monostearate 81541-12-0,
Di(p-methylbenzylidene)sorbitol 87826-41-3, 1,3:2,4-
Di(methylbenzylidene)sorbitol 156031-33-3

RL: USES (Uses)

(molded resin package materials contg.,
for photog. materials)

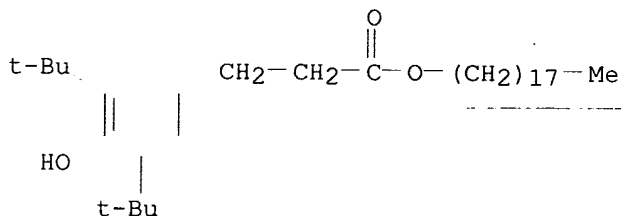
IT 2082-79-3, Octadecyl 3-(4-hydroxy-3,5-di-tert-
butylphenyl)propionate 6683-19-8, Tetrakis[methylene-3-(3,5-di-
tert-butyl-4-hydroxyphenyl)propionate]methane

RL: USES (Uses)

(molded resin package materials contg.,
for photog. materials)

RN 2082-79-3 HCAPLUS

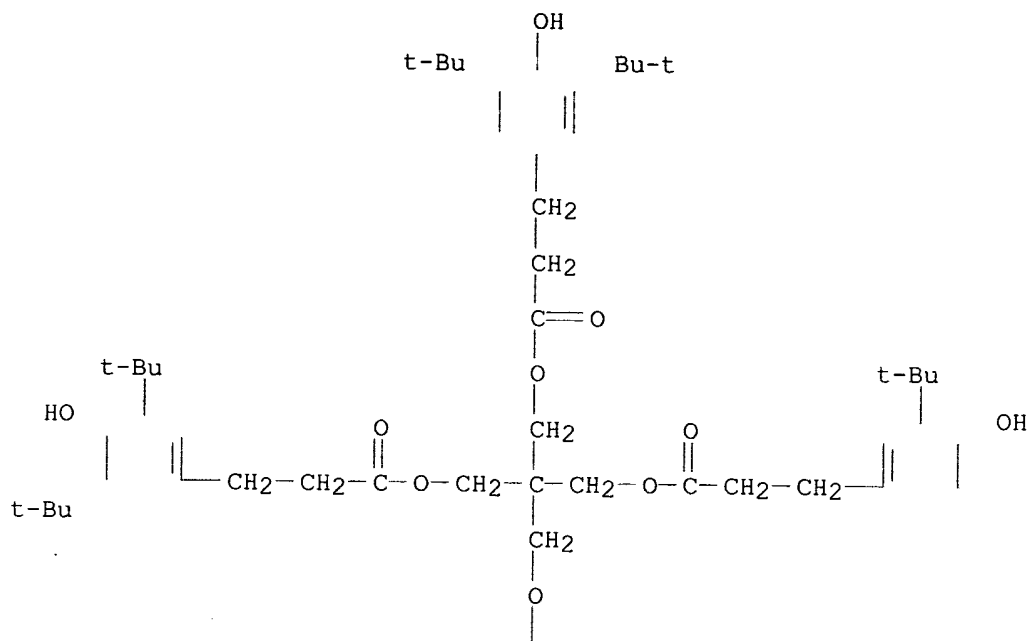
CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, octadecyl
ester (9CI) (CA INDEX NAME)



RN 6683-19-8 HCAPLUS

CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,
2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-
oxopropoxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

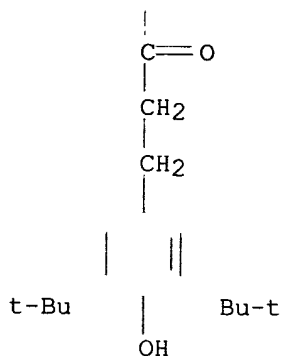
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PAGE 2-A



L40 ANSWER 16 OF 22 HCAPLUS COPYRIGHT 2002 ACS
 AN 1993:429609 HCAPLUS
 DN 119:29609
 TI Antifogging agents in thermoplastic **resin** composition for
 non-dripping **packaging** of photosensitive materials
 IN Akao, Mutsuo; Osanai, Hiroyuki; Kawamura, Makoto; Inoue, Koji
 PA Fuji Photo Film Co., Ltd., Japan
 SO Eur. Pat. Appl., 25 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 IC ICM G03C003-00
 ICS C08L023-02; C08K005-10
 CC 38-3 (**Plastics** Fabrication and Uses)
 Section cross-reference(s): 74

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 524404	A1	19930127	EP 1992-109106	19920529
	R: DE, GB				
	JP 06118571	A2	19940428	JP 1991-123965	19910528
	JP 2797155	B2	19980917		
	JP 05210217	A2	19930820	JP 1992-214930	19920812
	JP 3089334	B2	20000918		
PRAI	JP 1991-123965	A	19910528		
	JP 1991-231639	A	19910911		

OS MARPAT 119:29609

AB The title compn. useful for **molding films** and
 containers used in **packaging** photosensitive materials comprises
 a thermoplastic (e.g., ethylene copolymer) **resin**, .gtoreq.1
 lubricant, an antioxidant, an org. nucleating agent, and a dripproofing
 agent which inhibits and equalizes the bleeding-out of the lubricant,
 antioxidant and the nucleating agent. Thus, a container for
photog. film was **molded** from a mixt. of
 ethylene-propylene random copolymer (3.2% ethylene) 60, ethylene-propylene
 block copolymer (21% ethylene) 38.9, oleic amide (lubricant) 0.10,
 glycerol monostearate (dripproofing agent) 0.2, 1,3,2,4-
 (dibenzylidene)sorbitol (org. nucleating agent) 0.1, CaCO3 (inorg.
 nucleating agent) 0.2%, TiO2 0.3%, Irganox 1010 (phenolic antioxidant)
 0.1, and Irganox 168 (P-contg. antioxidant) 0.1%. When the container was
 stored in a cold (10.degree.) room for a long period of time and taken
 out, water drops did not form on its surface.

- ST **packaging plastic** photosensitive material; container
photog film propylene copolymer; dripproof container
 compn propylene copolymer; antifogging agent glycerol monostearate;
 glycerol monostearate antifogging agent container; nondripping
packaging polyolefin photog film
- IT **Photographic films**
 (packaging of, resistant to migration of lubricants,
 polyolefin compns. for)
- IT Carbon black, uses
 RL: USES (Uses)
 (polyolefin **packaging** for **photog.** materials contg.,
 resistant to migration of lubricants)
- IT Containers
 (resistant to migration of lubricants, for photosensitive materials,
 polyolefin compns. for)
- IT **Packaging materials**
 (thermoplastic **resins** contg. migration inhibitors, for
photog. film)
- IT Amides, uses
 RL: USES (Uses)
 (fatty, bis-, lubricants, polyolefin compn. for resistant to migration
 of lubricants **packaging** of photosensitive materials contg.)
- IT Alkenes, **polymers**
 RL: USES (Uses)
 (**polymers**, compn. for **packaging** photosensitive
 materials contg., resistant to migration of lubricants)
- IT **Plastics, molded**
 RL: USES (Uses)
 (thermo-, **packaging** for **photog.** materials from,
 resistant to migration of lubricants, compns. for)
- IT 490-23-3 **6683-19-8**, Irganox 1010 31570-04-4, Irganox 168
 RL: USES (Uses)
 (antioxidant, thermoplastic compn. for **packaging**
 photosensitive materials contg., resistant to migration of lubricants)
- IT **128-37-0**, 2,6-Di-tert-butyl-p-cresol, miscellaneous
 RL: MSC (Miscellaneous)
 (antioxidant, thermoplastic compn. for **packaging**
 photosensitive materials contg., resistant to migration of lubricants)
- IT 9002-88-4, Polyethylene 9003-07-0, Polypropylene 9003-53-6,
 Polystyrene 9010-79-1, Ethylene-propylene copolymer 25213-96-1,
 Ethylene-4-methyl-1-pentene copolymer
 RL: USES (Uses)
 (compn. for **packaging** photosensitive materials contg.,
 resistant to migration of lubricants)
- IT 115-07-1D, Propylene, block copolymers 25087-34-7D, 1-Butene-ethylene
 copolymer, grafts with unsatd. carboxylic acids
 RL: USES (Uses)
 (compns. for **packaging** photosensitive materials contg.,
 resistant to migration of lubricants)
- IT 1323-83-7, Glycerol distearate 25496-72-4, Glycerol monooleate
 26836-47-5, Sorbitol monostearate 31566-31-1, Glycerol monostearate
 86088-80-4, Diglycerol sesquioleate 97503-01-0
 RL: USES (Uses)
 (dripproofing agent, thermoplastic compn. for **packaging**
 photosensitive materials contg.)
- IT 102962-56-1
 RL: USES (Uses)
 (dripproofing agents, thermoplastic compn. for **packaging**
 photosensitive materials contg.)
- IT 93-82-3 112-84-5, Erucic amide 301-02-0 6283-37-0

(lubricant, thermoplastic compn. for **packaging** photosensitive materials contg., resistant to migration of lubricants)

RL: USES (Uses)

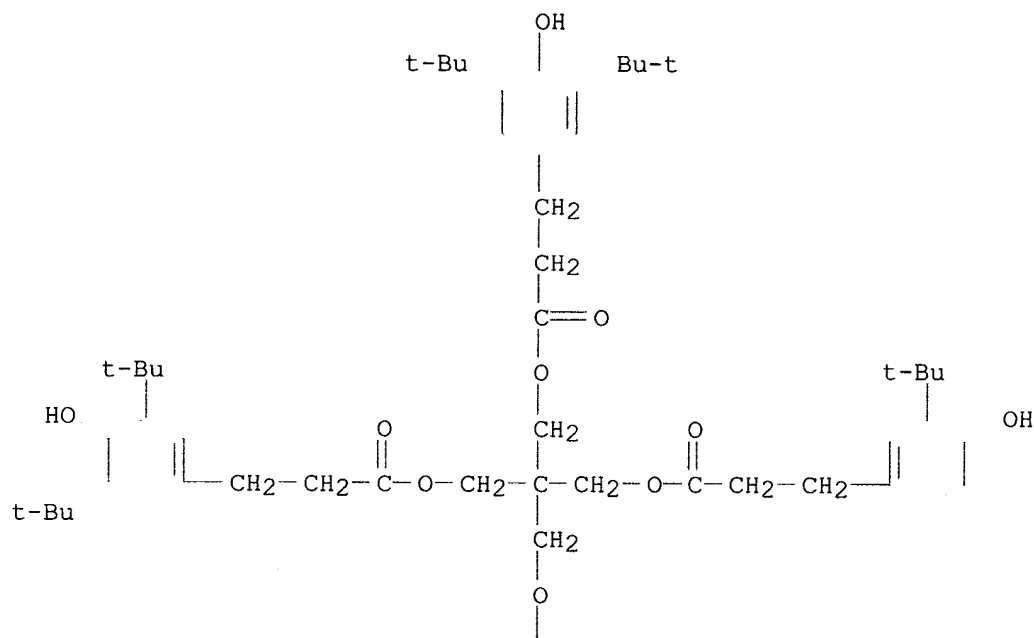
(nucleating agent, thermoplastic compn. for **packaging**
photosensitive materials contg., resistant to migration of lubricants)

RL: USES (Uses)

(antioxidant, thermoplastic compn. for **packaging**
photosensitive materials contg., resistant to migration of lubricants)

CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,
2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-
oxopropoxy)methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

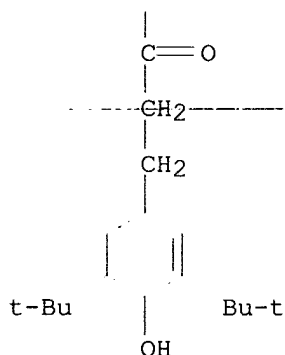
PAGE 1-A



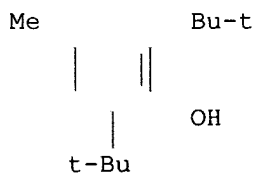
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IT 128-37-0, 2,6-Di-tert-butyl-p-cresol, miscellaneous
RL: MSC (Miscellaneous)
(antioxidant, thermoplastic compn. for **packaging**
photosensitive materials contg., resistant to migration of lubricants)
RN 128-37-0 HCAPLUS
CN Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (9CI) (CA INDEX NAME)



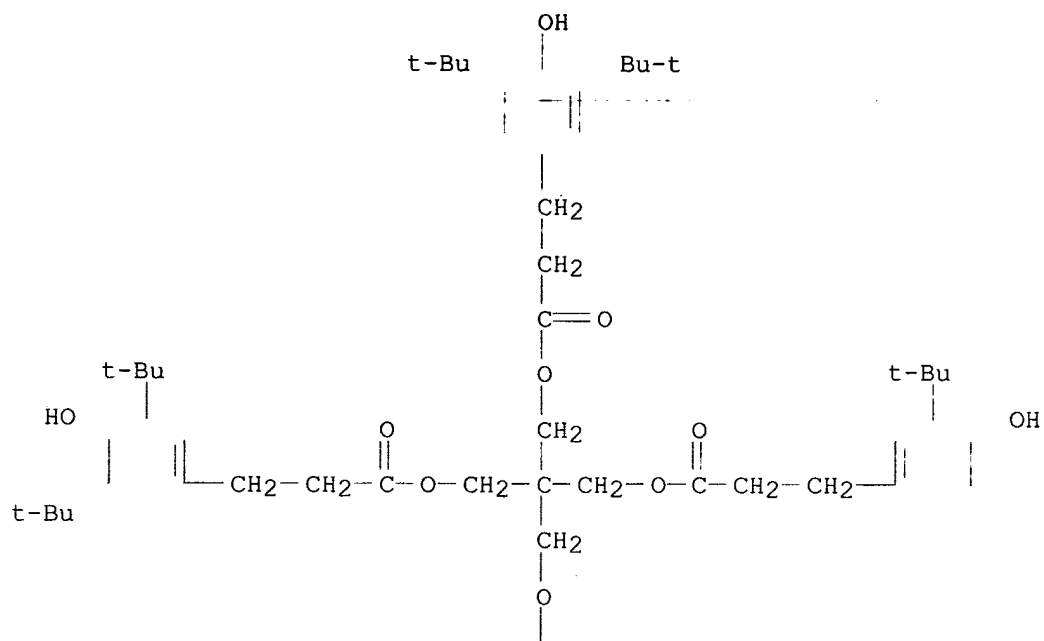
AN 1991:196457 HCAPLUS
 DN 114:196457
 TI **Resin** composition for photosensitive materials
 IN Akao, Mutsuo
 PA Fuji Photo Film Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM G03F007-00
 CC 74-13 (Radiation Chemistry, Photochemistry, and **Photographic** and
 Other Reprographic Processes)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02178657	A2	19900711	JP 1988-332032	19881229
	JP 2514081	B2	19960710		

AB The **resin** compn. contains, relative to a metal powder 100 wt. parts: .gtoreq.1 material 0.05-70 selected from aliph. acids, their compds., and surfactants; an antioxidant 0.01-20; and white silica 0.2-20 wt. parts. This **resin** compn. useful for **photog. film packaging** materials gives high phys. strength and characteristics suitable for injection **molding** and light shielding.

ST **resin** compn **film packaging** material
 IT **Packaging** materials
 (low-d. polyethylene, for photosensitive materials)
 IT 7429-90-5, Aluminum, uses and miscellaneous 7440-02-0, Nickel, uses and miscellaneous
 RL: USES (Uses)
 (powder, **resin** compn. contg., as **packaging film** for photosensitive material)
 IT 57-11-4, Stearic acid, uses and miscellaneous 301-02-0 6683-19-8
 7631-86-9, Silica, uses and miscellaneous
 RL: USES (Uses)
 (**resin** compn. contg., as **packaging** material for photosensitive material)
 IT 6683-19-8
 RL: USES (Uses)
 (**resin** compn. contg., as **packaging** material for photosensitive material)
 RN 6683-19-8 HCAPLUS
 CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

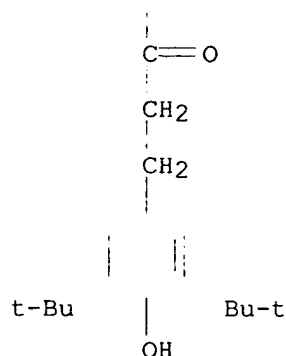
PAGE 1-A



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PAGE 2-A



L40 ANSWER 18 OF 22 HCAPLUS COPYRIGHT 2002 ACS

AN 1989:516567 HCAPLUS

DN 111:116567

TI **Packaging films for light-sensitive photographic materials**

IN Akao, Mutsuo

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM G03C003-00

ICS B32B027-18; B32B027-32; C08J005-18

CC 38-3 (**Plastics** Fabrication and Uses)

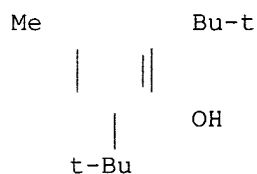
Section cross-reference(s): 74

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01094341	A2	19890413	JP 1987-251529	19871007
	JP 07097205	B4	19951018		
AB	Blocking-resistant title films with improved mech. strength contain layers comprising cryst. polypropylene 5-40, linear low-d. polyethylene .gtoreq.30, light shielding materials 0.1-30, antioxidants 0.01-1.0, org. nucleation agents 0.01-3.00, and lubricants 0.01-6.00%. Thus, 3:97 ethylene-propylene copolymer (I) 20.0, ethylene-4-methyl-1-pentene copolymer 76.6, 2,6-di-tert-butyl-p-cresol 0.2, oleamide (II) 0.1, 1.3,2.4-bis(methylbenzylidene)sorbitol 0.1, and carbon black 3.0% were mixed and inflation-molded to give a film having flexural modulus 122.6 kg/mm ² , vs. 28.6 for a film without I and II.				
ST	polyethylene polypropylene blend packaging film ; photog packaging crystn polypropylene blend; ethylene propylene copolymer blend film ; methylpentene ethylene copolymer blend film ; carbon black polyethylene blend film				
IT	Lubricants Carbon black, uses and miscellaneous RL: USES (Uses) (ethylene polymer blend films contg., for photog. material packaging films)				
IT	Polyamides, uses and miscellaneous RL: USES (Uses) (films , aluminum-metalized, for photog. material				

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packaging laminated films)
 IT Light-sensitive materials
 (packaging films for, laminates contg.
 polyolefin-light shielding material blend films as)
 IT Packaging materials
 (laminated films, multilayer, polyolefin-light shielding
 material blend-contg., for photog. materials)
 IT 128-37-0, 2,6-Di-tert-butyl-p-cresol, uses and miscellaneous
 RL: USES (Uses)
 (antioxidants, ethylene polymer blend films contg.,
 for photog. material packaging films)
 IT 9010-79-1, Ethylene-propylene copolymer
 RL: USES (Uses)
 (cryst., photog. material packaging laminated
 films contg.)
 IT 87826-41-3
 RL: USES (Uses)
 (ethylene polymer blend films contg., for
 photog. material packaging films)
 IT 301-02-0, Oleamide
 RL: USES (Uses)
 (lubricants, ethylene polymer blend films contg.,
 for photog. material packaging films)
 IT 25087-34-7 25213-96-1, Ethylene-4-methylpentene-1 copolymer
 RL: USES (Uses)
 (photog. material packaging laminated films
 contg.)
 IT 7429-90-5, Aluminum, uses and miscellaneous
 RL: USES (Uses)
 (polyamide film deposited with, photog. material
 packaging laminated films contg.)
 IT 128-37-0, 2,6-Di-tert-butyl-p-cresol, uses and miscellaneous
 RL: USES (Uses)
 (antioxidants, ethylene polymer blend films contg.,
 for photog. material packaging films)
 RN 128-37-0 HCAPLUS
 CN Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (9CI) (CA INDEX NAME)



L40 ANSWER 19 OF 22 HCAPLUS COPYRIGHT 2002 ACS
 AN 1989:516305 HCAPLUS
 DN 111:116305
 TI Propylene polymer compositions with good radiation resistance
 IN Nakajima, Yoichi
 PA Chisso Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 18 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C08L023-10
 ICS C08K005-50

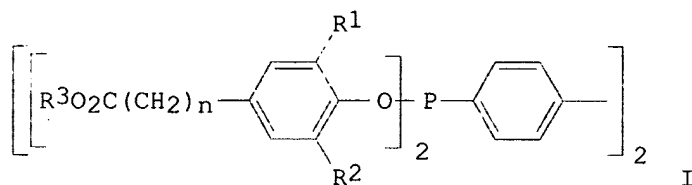
ICI C08K005-50, C08K005-17

CC 37-6 (Plastics Manufacture and Processing)

Section cross-reference(s): 17, 63, 74

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01038457	A2	19890208	JP 1987-194090	19870803
	JP 07084545	B4	19950913		
OS	MARPAT 111:116305				
GI					



AB The compns., useful in prepg. radiochem. sterilizable disposable syringes, surgical gowns, food **packaging** films, etc., are prepd. from propylene polymers 100, hindered amines 0.01-1.0, and phosphonites I (R1, R2 = H, C1-8 alkyl; R3 = hydrocarbyl; n = 0-6) 0.01-1.0 part.

Polypropylene 100, poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidyl)imino]hexamethylene[(2,2,6,6-tetramethyl-4-piperidyl)imino]] 0.1, tetrakis[2,6-di-tert-butyl-4-(octadecyloxy)carbonyl]phenyl 4,4'-biphenylylenediphosphonite (II) 0.05, 2,5-dimethyl-2,5-bis(tert-butylperoxy)hexane 0.01, and Ca stearate 0.1 part were mixed and injection-molded to give a sheet having yellowness index -0.3 and 7.3%, tensile strength 345 and 332 kg/cm², elongation >400 and 193%, and Izod impact strength 3.8 and 3.4 kg-cm/cm, as prepd. and after exposure to a 5-megarad dose of .gamma.-rays, then storage for 10 days at 100.degree., resp., vs. -0.2 and 7.6, 344 and 320, >400 and 171, and 3.7 and 2.6, resp., for a sheet contg. tetrakis(2,4-di-tert-butylphenyl) 4,4'-biphenylylenediphosphonite instead of II.

ST radiation resistance polypropylene sheet; hindered amine stabilizer polypropylene; phosphonite antioxidant polypropylene sheet; tetraaryl biphenylylenediphosphonite antioxidant

IT Antioxidants

(biphenylylenediphosphonites, radiation-resistant propylene polymers contg.)

IT Light stabilizers

(hindered amines, radiation-resistant propylene polymers contg.)

IT Gamma ray, chemical and physical effects

(resistance to, of propylene polymers contg. hindered amines and biphenylylenediphosphonites)

IT Amines, uses and miscellaneous

RL: USES (Uses)

(hindered, light stabilizers, radiation-resistant propylene polymers contg.)

IT 122077-26-3 122077-27-4 122077-28-5

RL: USES (Uses)

(antioxidants, radiation-resistant propylene polymers contg.)

IT 65447-77-0 71878-19-8 88003-10-5

90751-07-8 98388-46-6

RL: USES (Uses)

(light stabilizers, radiation-resistant propylene polymers contg.)
 IT 9003-07-0, Polypropylene 9010-79-1 25895-47-0, 1-Butene-ethylene-propylene copolymer 29160-13-2, 1-Butene-propylene copolymer 106565-43-9, Ethylene-propylene block copolymer 112760-38-0, 1-Butene-hexene-propylene copolymer

RL: PEP (Physical, engineering or chemical process); PROC (Process)

(moldings, contg. hindered amines and biphenylylenediphosphonites, radiation-resistant)

IT 65447-77-0 71878-19-8 88003-10-5
 90751-07-8 98388-46-6

RL: USES (Uses)

(light stabilizers, radiation-resistant propylene polymers contg.)

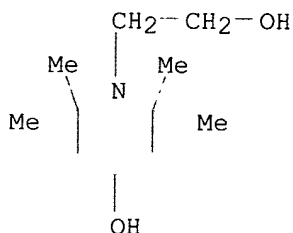
RN 65447-77-0 HCAPLUS

CN Butanedioic acid, dimethyl ester, polymer with 4-hydroxy-2,2,6,6-tetramethyl-1-piperidineethanol (9CI) (CA INDEX NAME)

CM 1

CRN 52722-86-8

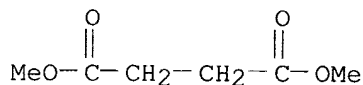
CMF C11 H23 N O2



CM 2

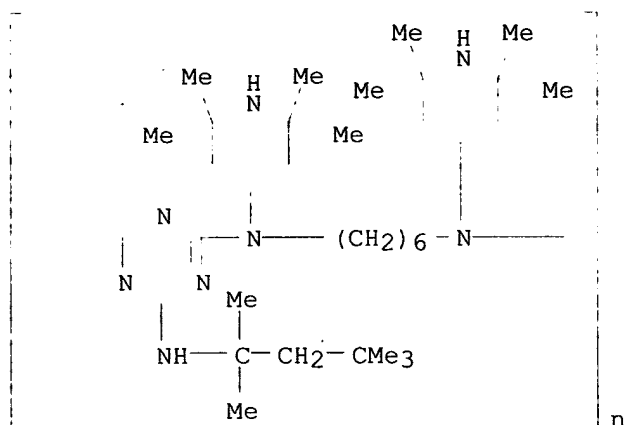
CRN 106-65-0

CMF C6 H10 O4



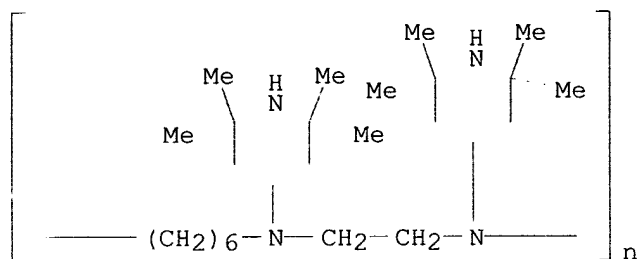
RN 71878-19-8 HCAPLUS

CN Poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino]] (9CI) (CA INDEX NAME)



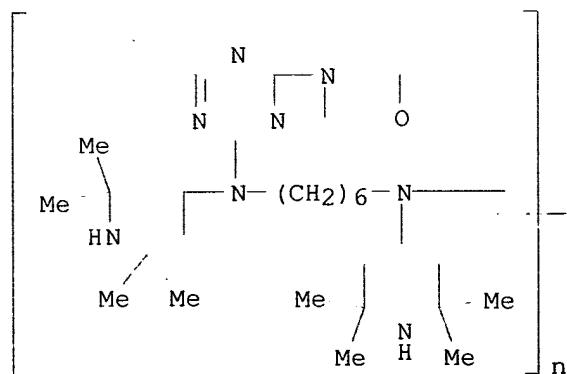
RN 88003-10-5 HCAPLUS

CN Poly[[(2,2,6,6-tetramethyl-4-piperidinyloxy)-1,2-ethanediyl] [(2,2,6,6-tetramethyl-4-piperidinyloxy)-1,6-hexanediyl] (9CI) (CA INDEX NAME)]



RN 90751-07-8 HCAPLUS

CN Poly[[6-(4-morpholinyl)-1,3,5-triazine-2,4-diyl] [(2,2,6,6-tetramethyl-4-piperidinyloxy)-1,6-hexanediyl] [(2,2,6,6-tetramethyl-4-piperidinyloxy)-1,6-hexanediyl] (9CI) (CA INDEX NAME)]



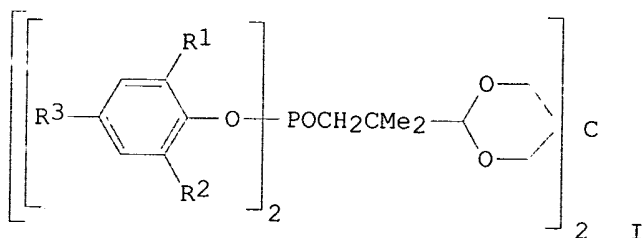
RN 98388-46-6 HCAPLUS

L40 ANSWER 20 OF 22 HCAPLUS COPYRIGHT 2002 ACS
AN 1989:498444 HCAPLUS

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DN 111:98444
 TI Propylene polymer compositions with good radiation resistance
 IN Nakajima, Yoichi
 PA Chisso Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 22 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C08L023-10
 ICS C08K005-52
 ICI C08K005-52, C08K005-17
 CC 37-6 (Plastics Manufacture and Processing)
 Section cross-reference(s): 17, 63, 74
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01038456	A2	19890208	JP 1987-194089	19870803
	JP 07084544	B4	19950913		
OS	MARPAT 111:98444				
GI					



AB The compns., useful in prepg. radiochem. sterilizable disposable syringes, surgical gowns, food **packaging** films, etc., are prepd. from propylene polymers 100, hindered amines 0.01-1.0, and phosphites I [R1, R2 = H, C1-8 alkyl; R3 = H, alkyl, (CH2)nCO2R4; R4 = hydrocarbyl; n = 0-6] 0.01-1.0 part. Polypropylene 100, poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidyl)imino]hexamethylene[(2,2,6,6-tetramethyl-4-piperidyl)imino]] 0.1, tetrakis(2,4-di-tert-butylphenyl) 3,9-bis(1,1-dimethyl-2-hydroxyethyl)-2,4,8,10-tetraoxaspiro[4.5]undecane diphosphite (II) 0.05, 2,5-dimethyl-2,5-bis(tert-butylperoxy)hexane 0.01, and Ca stearate 0.1 part were mixed and injection-molded to give a sheet having yellowness index -0.4 and 7.1%, tensile strength 345 and 334 kg/cm², elongation >400 and 195%, and Izod impact strength 3.9 and 3.5 kg-cm/cm, as prepd. and after exposure to a 5-megarad gamma-ray dose, then storage for 10 days at 100.degree., resp., vs. -0.3 and 7.5, 345 and 321, >400 and 173, and 3.8 and 2.6, resp., for a sheet contg. bis(2,4-di-tert-butylphenyl) pentaerythritol diphosphite instead of II.

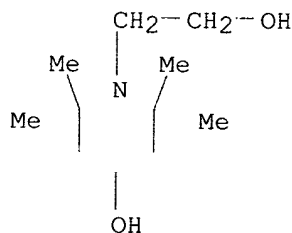
ST radiation resistance polypropylene sheet; hindered amine stabilizer
 IT propylene polymer; phosphite antioxidant polypropylene sheet
 IT Light stabilizers
 (hindered amines, radiation-resistant propylene polymers contg.)
 IT Gamma ray, chemical and physical effects
 (resistance to, of propylene polymers contg. hindered amines and bisphosphites)
 IT Antioxidants

- (tetraaryl dimethyltetraoxaspiroundecanediethanol diphosphites,
radiation-resistant propylene polymers contg.)
- IT Amines, uses and miscellaneous
RL: USES (Uses)
(hindered, light stabilizers, radiation-resistant propylene polymers
contg.)
- IT 89493-89-0 122077-29-6 122098-98-0 122098-99-1
RL: USES (Uses)
(antioxidants, radiation-resistant propylene polymers contg.)
- IT 65447-77-0 71878-19-8 88003-10-5
90751-07-8 98388-46-6
RL: USES (Uses)
(light stabilizers, radiation-resistant propylene polymers contg.)
- IT 9003-07-0, Polypropylene 9010-79-1, Ethylene-propylene copolymer
25895-47-0 29160-13-2, 1-Butene-propylene copolymer 106565-43-9,
Ethylene-propylene block copolymer 112760-38-0, 1-Butene-hexene-
propylene copolymer
RL: PEP (Physical, engineering or chemical process); PROC (Process)
(moldings, contg. hindered amines and bisphosphites,
radiation-resistant)
- IT 65447-77-0 71878-19-8 88003-10-5
90751-07-8 98388-46-6
RL: USES (Uses)
(light stabilizers, radiation-resistant propylene polymers contg.)
- RN 65447-77-0 HCAPLUS
- CN Butanedioic acid, dimethyl ester, polymer with 4-hydroxy-2,2,6,6-
tetramethyl-1-piperidineethanol (9CI) (CA INDEX NAME)

CM 1

CRN 52722-86-8

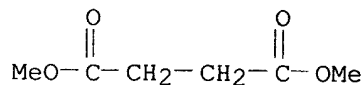
CMF C11 H23 N O2



CM 2

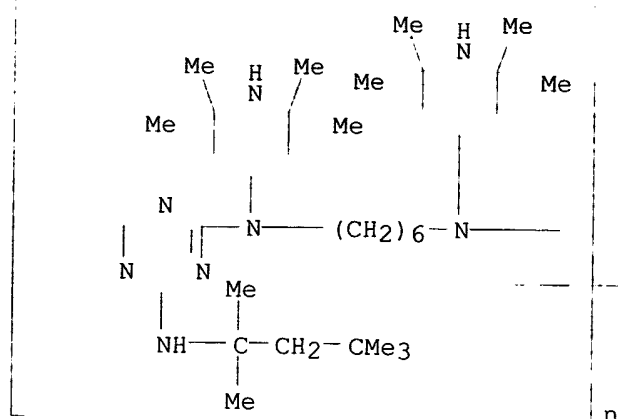
CRN 106-65-0

CMF C6 H10 O4



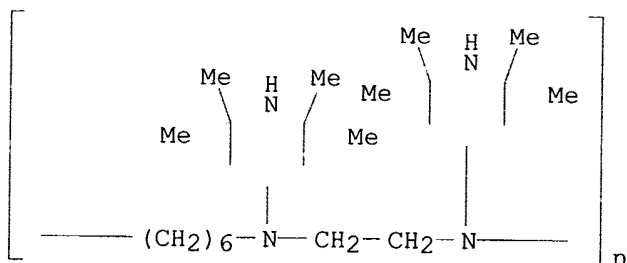
RN 71878-19-8 HCAPLUS

CN Poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-
diyl][(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediyl[(2,2,6,6-
tetramethyl-4-piperidinyl)imino]] (9CI) (CA INDEX NAME)



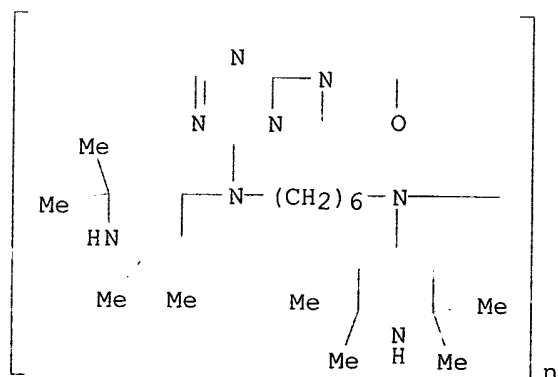
RN 88003-10-5 HCAPLUS

CN Poly[[(2,2,6,6-tetramethyl-4-piperidiny)imino]-1,2-ethanediyl[(2,2,6,6-tetramethyl-4-piperidiny)imino]-1,6-hexanediyl] (9CI) (CA INDEX NAME)



RN 90751-07-8 HCAPLUS

CN Poly[[6-(4-morpholinyl)-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidiny)imino]-1,6-hexanediyl[(2,2,6,6-tetramethyl-4-piperidiny)imino]] (9CI) (CA INDEX NAME)



RN 98388-46-6 HCAPLUS

L40 ANSWER 21 OF 22 HCAPLUS COPYRIGHT 2002 ACS

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

AN 1989:458983 HCAPLUS
 DN 111:58983
 TI Propylene polymer compositions with good radiation resistance
 IN Nakajima, Yoichi; Sato, Toshiaki
 PA Chisso Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 14 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C08L023-10
 ICS C08K005-34
 ICI C08K005-34, C08K005-05, C08K005-49
 CC 37-6 (Plastics Manufacture and Processing)
 Section cross-reference(s): 17, 63, 74
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01038455	A2	19890208	JP 1987-194088	19870803
	JP 08003007	B4	19960117		
AB	Title compns., useful in prepg. radiation-sterilizable disposable syringes, surgical dressings, food packages, etc., are prepd. from propylene polymers 100, hindered amines 0.01-1.0, P-contg. antioxidants 0.01-1.0, and benzhydrols 0.01-1.0 part. Polypropylene 100, poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidyl)imino]hexamethylene[(2,2,6,6-tetramethyl-4-piperidyl)imino]] 0.1, benzhydrol 0.1, bis(2,4-di-tert-butylphenyl) pentaerythritol diphosphite (I) 0.05, 2,5-dimethyl-2,5-bis(tert-butylperoxy)hexane 0.01, and Ca stearate 0.1 part were mixed and injection-molded to give a sheet having yellowness index -0.2 and 8.8%, tensile strength 344 and 325 kg/cm ² , elongation >400 and 173%, and Izod impact strength 3.8 and 2.9 kg-cm/cm, as prepd. and after exposure to a 5-megarad dose of 60Co gamma-rays, then storage for 10 days at 100.degree., resp., vs. 0.1 and 9.7, 346 and 295, >400 and 123, and 3.7 and 2.1, resp., for a sheet without I.				
ST	radiation resistance propylene polymer sheet; hindered amine contg polypropylene sheet; phosphite antioxidant contg polypropylene sheet; benzhydrol contg polypropylene sheet				
IT	Antioxidants (phosphites, radiation-resistant propylene polymers contg.)				
IT	Gamma ray, chemical and physical effects (resistance to, of propylene polymers contg. hindered amines and phosphites and benzhydrols)				
IT	Amines, uses and miscellaneous RL: USES (Uses) (hindered, light stabilizers, radiation-resistant propylene polymers contg.)				
IT	26741-53-7, Bis(2,4-di-tert-butylphenyl) pentaerythritol diphosphite 31570-04-4, Tris(2,4-di-tert-butylphenyl) phosphite 38613-77-3, Tetrakis(2,4-di-tert-butylphenyl) 4,4'-biphenylylenediphosphonite 80693-00-1 RL: USES (Uses) (antioxidants, radiation-resistant propylene polymers contg.)				
IT	65447-77-0 71878-19-8 88003-10-5 90751-07-8 RL: USES (Uses) (light stabilizers, radiation-resistant propylene polymers contg.)				
IT	9003-07-0, Polypropylene 9010-79-1 25895-47-0, 1-Butene-ethylene-propylene copolymer 29160-13-2, 1-Butene-propylene copolymer 106565-43-9 112760-38-0, 1-Butene-hexene-propylene copolymer RL: PEP (Physical, engineering or chemical process); PROC (Process)				

(moldings, contg. hindered amines and phosphites and benzhydrols, radiation-resistant)

IT 91-01-0, Benzhydrol 885-77-8, 4,4'-Dimethylbenzhydrol 16607-60-6
32449-03-9 98531-28-3

RL: USES (Uses)

(transparent and radiation-resistant propylene polymers contg.)

IT 65447-77-0 71878-19-8 88003-10-5

90751-07-8

RL: USES (Uses)

(light stabilizers, radiation-resistant propylene polymers contg.)

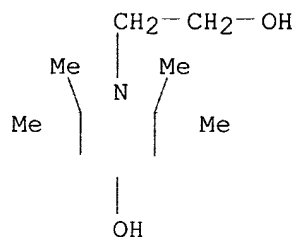
RN 65447-77-0 HCAPLUS

CN Butanedioic acid, dimethyl ester, polymer with 4-hydroxy-2,2,6,6-tetramethyl-1-piperidineethanol (9CI) (CA INDEX NAME)

CM 1

CRN 52722-86-8

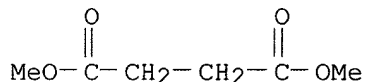
CMF C11 H23 N O2



CM 2

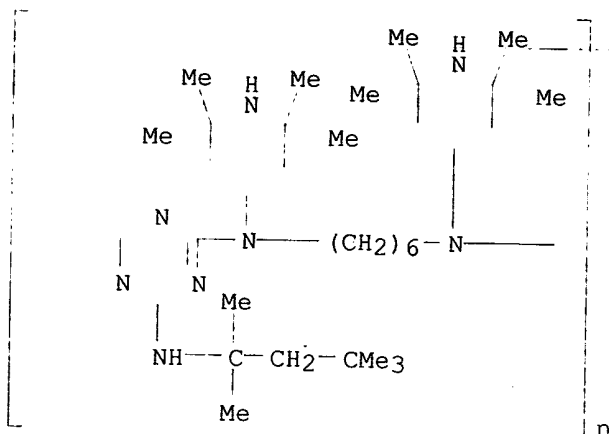
CRN 106-65-0

CMF C6 H10 O4



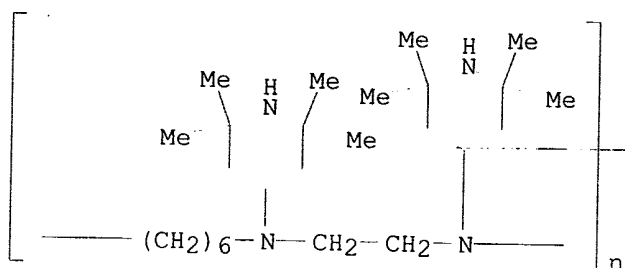
RN 71878-19-8 HCAPLUS

CN Poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidiny)imino]-1,6-hexanediyl[(2,2,6,6-tetramethyl-4-piperidiny)imino]] (9CI) (CA INDEX NAME)



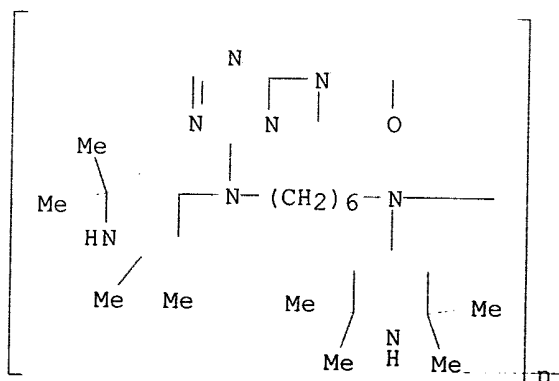
RN 88003-10-5 HCAPLUS

CN Poly[[(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,2-ethanediyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediyl] (9CI) (CA INDEX NAME)



RN 90751-07-8 HCAPLUS

CN Poly[[6-(4-morpholinyl)-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino]] (9CI) (CA INDEX NAME)



L40 ANSWER 22 OF 22 HCAPLUS COPYRIGHT 2002 ACS
 AN 1989:458982 HCAPLUS
 DN 111:58982

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

TI Propylene polymer compositions with good radiation resistance
 IN Nakajima, Yoichi; Sato, Toshiaki
 PA Chisso Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 12 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C08L023-10
 ICS C08K005-34
 ICI C08K005-34, C08K005-15, C08K005-49
 CC 37-6 (Plastics Manufacture and Processing)
 Section cross-reference(s): 17, 63, 74
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01038454	A2	19890208	JP 1987-194087	19870803
AB	Title compns., useful in prepg. radiation-sterilizable disposable syringes, surgical dressings, food packages , etc., are prepd. from propylene polymers 100, hindered amines contg. triazine rings 0.01-1.0, P-contg. antioxidants 0.01-1.0, and dibenzylidenesorbitols 0.01-1.0 part. Polypropylene 100, poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidyl)imino]hexamethylene[(2,2,6,6-tetramethyl-4-piperidyl)imino]] (I) 0.1, bis(2,4-di-tert-butylphenyl) pentaerythritol diphosphite 0.05, 1,3:2,4-dibenzylidenesorbitol 0.25, 2,5-dimethyl-2,5-di-tert-butylperoxy)hexane 0.01, and Ca stearate 0.1 part were mixed and injection-molded to give a sheet having yellowness index -0.1 and 7.4%, tensile strength 375 and 351 kg/cm ² , elongation >400 and 166%, and Izod impact strength 3.7 and 2.8 kg-cm/cm, as prepd. and after exposure to 5 megarads of .gamma.-rays and storage for 10 days at 100.degree., resp., vs. 0.2 and 7.5, 375 and 291, >400 and 4, and 3.5 and 0.8, resp., for a sheet contg. bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate instead of I.				
ST	radiation resistance polypropylene blend sheet; hindered amine contg polypropylene sheet; phosphite antioxidant contg polypropylene sheet; benzylidenesorbitol contg polypropylene sheet				
IT	Antioxidants (phosphites, radiation-resistant propylene polymers contg.)				
IT	Gamma ray, chemical and physical effects (resistance to, of propylene polymers contg. hindered amines and phosphites and dibenzylidenesorbitols)				
IT	Amines, uses and miscellaneous RL: USES (Uses) (hindered, light stabilizers, radiation-resistant propylene polymers contg.)				
IT	26741-53-7, Bis(2,4-di-tert-butylphenyl) pentaerythritol diphosphite 31570-04-4, Tris(2,4-di-tert-butylphenyl) phosphite 38613-77-3, Tetrakis(2,4-di-tert-butylphenyl) 4,4'-biphenylylenediphosphonite 80693-00-1 RL: USES (Uses) (antioxidant, radiation-resistant propylene polymers contg.)				
IT	71878-19-8 90751-07-8 121859-41-4 121859-42-5 RL: USES (Uses) (light stabilizers, radiation-resistant propylene polymers contg.)				
IT	9003-07-0, Polypropylene 9010-79-1 25895-47-0, 1-Butene-ethylene-propylene copolymer 29160-13-2, 1-Butene-propylene copolymer 67203-28-5 RL: PEP (Physical, engineering or chemical process); PROC (Process) (moldings, contg. hindered amines and phosphites and				

dibenzylidenesorbitols, radiation-resistant)
 IT 19046-64-1 80124-42-1 81541-12-0 81541-15-3 88449-66-5,
 1,3-p-Chlorobenzylidene-2,4-p-methylbenzylidenesorbitol
 RL: USES (Uses)

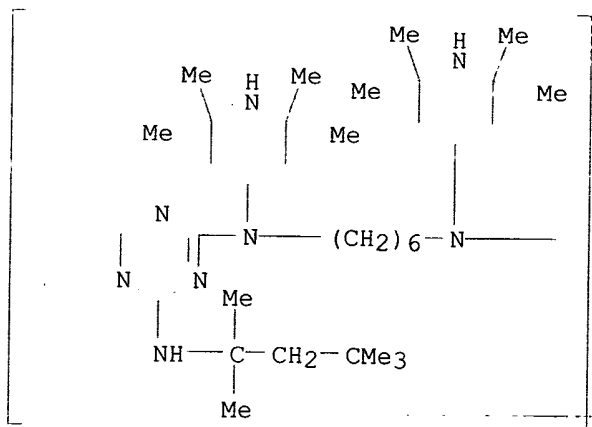
(transparent and radiation-resistant propylene polymers contg.)
 IT 71878-19-8 90751-07-8 121859-41-4
 121859-42-5

RL: USES (Uses)

(light stabilizers, radiation-resistant propylene polymers contg.)

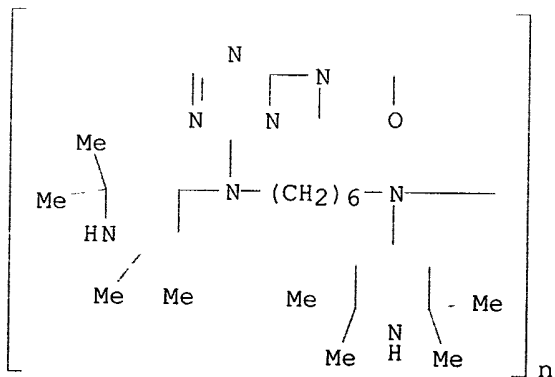
RN 71878-19-8 HCAPLUS

CN Poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidiny)l)imino]-1,6-hexanediyl[(2,2,6,6-tetramethyl-4-piperidiny)l)imino]] (9CI) (CA INDEX NAME)



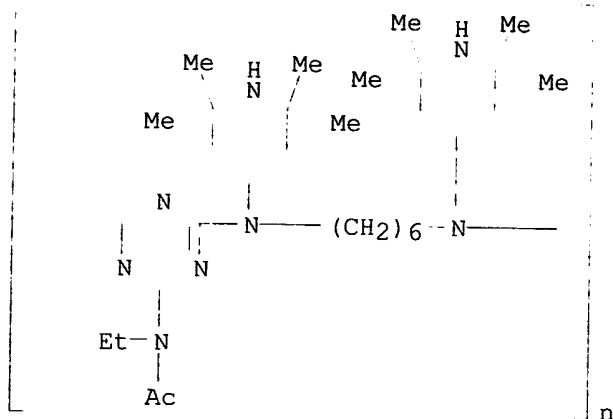
RN 90751-07-8 HCAPLUS

CN Poly[[6-(4-morpholinyl)-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidiny)l)imino]-1,6-hexanediyl[(2,2,6,6-tetramethyl-4-piperidiny)l)imino]] (9CI) (CA INDEX NAME)



RN 121859-41-4 HCAPLUS

CN Poly[[6-(acetyethylamino)-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidiny)l)imino]-1,6-hexanediyl[(2,2,6,6-tetramethyl-4-piperidiny)l)imino]] (9CI) (CA INDEX NAME)



RN 121859-42-5 HCAPLUS

CN Poly[[6-[butyl(2,2,6,6-tetramethyl-4-piperidinyliamino)-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidinylimino)-1,6-hexanediyl[(2,2,6,6-tetramethyl-4-piperidinylimino)] (9CI) (CA INDEX NAME)

